

Certificate of Calibration

Manufacturer: **Radian Research, Inc.**
Instrument Model: **RX-30-PQ Xytronic Portable Standard**
Serial Number: XXXXXX
Firmware Revision: 12.02.02
Error Specification: 0.04% worst case



ISO 9001:2015 Certified Quality Management System
ISO/IEC 17025:2017 Accredited Laboratory

Customer Name: Radian Research, Inc.
Address: 3852 Fortune Drive
Lafayette, IN 47905

Calibration Lab Name: Radian Research, Inc.
Calibration Lab Address: 3852 Fortune Drive, Lafayette, IN 47905, USA
Calibration Date: 16-Oct-26
Report Issue Date: 16-Oct-26

Environmental Conditions	CE Number:	CE1234
Temperature: 23°C +/- 2°C	P.O.Number:	PO5678
Humidity: between 30% and 60%	RMA:	RO98765

Physical Condition: Undamaged

Note: If the device is out of tolerance, it will be adjusted, unless otherwise requested by the customer. Results are considered out of tolerance if at any measurement, the magnitude of measured error + measurement uncertainty + the guard band of 0.001% error (10 ppm) is greater than the published error specification.

Radian Research's As-Found Test Results showed this Instrument to be:

☒ New ☐ In Tolerance ☐ Out of Tolerance ☐ Inoperative ☐ Limited Calibration

Radian Research, Inc. certifies the instrument listed above meets or exceeds specifications and was calibrated in compliance with ANSI/NCSL Z540-1-1994. Identified results are accredited to ISO/IEC 17025:2017 "General Requirements for the Competence of Testing and Calibration laboratories", using applicable Radian Research procedures which meet the requirements of ISO 9001:2015 and ISO/IEC Guide 98-3 "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

This instrument was calibrated by a Radian Research RS-933 Syntron Automated Calibration System which is traceable to the National Institute of Standards and Technology (NIST) and/or other National Metrology Institute (NMI). The Automated Calibration system is cross checked and calibrated on a schedule which is adjusted to maintain required accuracies and traceability. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.

Procedure used for Calibration: 9912270
Software used for Calibration: Radian Research RS-933 Control Application Version 2.6.8312.21655
RS-933 Tool Number: 9911934

Standards Used in This Calibration:

<u>Description</u>	<u>Serial Number(s):</u>	<u>Cal. Source</u>	<u>Cal. Number:</u>	<u>Cal. Due Date:</u>
RS-940B Data Collection Module	933028	Radian Research	933028-20260413	4/13/2027
RS-711 Syntron with RS-932 Boost Module (Phase A)	703201	Radian Research	703201-20260215	2/15/2027
RS-711 Syntron with RS-932 Boost Module (Phase B)	703198	Radian Research	703198-20260122	1/22/2027
RS-711 Syntron with RS-932 Boost Module (Phase C)	703199	Radian Research	703199-20260126	1/26/2027

Laboratory Technician Signature

Template 9903279.11

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Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watt-hour 60 Hz Phase A

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	0.000	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.000
0.25	0.001	0.001	0.002	0.002	0.001	0.001	0.000	0.001	0.001	0.002	0.002	0.001
0.5	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.000	0.001	0.003	0.002	0.001
1	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.000	0.000
2.5	0.000	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	0.000	0.000
3	0.001	0.000	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.000	0.001
5	0.000	-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.002	0.000	0.000	-0.001	0.000
10	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.000	0.000
15	0.001	0.000	0.003	0.002	0.000	0.002	0.000	-0.001	0.001	0.001	0.001	0.002
20	0.000	0.000	0.002	0.000	0.000	0.001	0.000	-0.001	0.000	0.001	0.001	0.001
30	0.002	0.001	0.003	0.001	0.001	0.002	0.001	0.001	0.001	0.002	0.002	0.001
40	-0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.001	-0.001
50	0.000	0.000	0.000	0.000	0.001	-0.001	0.000	-0.001	0.000	0.000	0.001	0.000
60	0.001	0.001	0.002	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.001	0.001
100	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.002	0.001	0.002	0.002	0.001
120	0.002	0.001	0.003	0.002	0.001	0.002	0.001	0.001	0.001	0.003	0.003	0.002
180	0.001	0.002	0.001	0.001	0.002	-0.001	0.001	0.003	-0.001	0.002	0.003	0.000
200	0.001	0.002	0.001	0.002	0.002	0.000	0.001	0.003	0.000	0.003	0.004	-0.001

Average	0.001	0.000	0.002	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001
Minimum	-0.001	-0.001	0.000	-0.001	-0.002	-0.001	-0.001	-0.002	-0.001	0.000	-0.001	-0.001
Maximum	0.002	0.002	0.003	0.002	0.002	0.002	0.001	0.003	0.001	0.003	0.004	0.002

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.001
Minimum	-0.001	-0.002	-0.001
Maximum	0.003	0.004	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watt-hour 60 Hz Phase B

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.001	-0.003	0.004	0.000	-0.002	0.003	0.001	-0.002	0.003	0.006	0.004	0.008
0.25	0.003	-0.001	0.005	0.002	-0.001	0.003	0.001	-0.001	0.004	0.007	0.005	0.008
0.5	0.002	-0.002	0.005	0.002	-0.001	0.004	0.002	-0.002	0.004	0.007	0.005	0.008
1	0.002	-0.002	0.006	0.002	-0.002	0.005	0.001	-0.003	0.003	0.007	0.003	0.009
2.5	0.001	-0.002	0.004	0.001	-0.002	0.003	0.001	-0.002	0.003	0.007	0.003	0.008
3	0.002	-0.002	0.004	0.002	-0.003	0.004	0.002	-0.002	0.003	0.006	0.003	0.009
5	0.001	-0.003	0.004	0.001	-0.002	0.003	0.000	-0.002	0.001	0.006	0.003	0.007
10	0.001	-0.003	0.003	0.000	-0.003	0.002	0.000	-0.002	0.002	0.006	0.003	0.007
15	0.002	-0.002	0.003	0.002	-0.002	0.004	0.001	-0.002	0.002	0.007	0.004	0.008
20	0.000	-0.003	0.002	0.000	-0.003	0.001	0.000	-0.003	0.001	0.006	0.003	0.007
30	0.001	-0.002	0.003	0.001	-0.002	0.002	0.001	-0.001	0.002	0.007	0.004	0.008
40	0.001	-0.002	0.002	0.001	-0.002	0.002	0.000	-0.002	0.001	0.006	0.004	0.006
50	0.001	-0.002	0.002	0.001	-0.001	0.002	0.000	-0.002	0.001	0.006	0.005	0.007
60	0.002	-0.002	0.004	0.002	-0.002	0.004	0.002	-0.001	0.002	0.007	0.005	0.008
100	0.002	0.000	0.004	0.002	-0.001	0.003	0.002	0.000	0.003	0.007	0.006	0.008
120	0.002	-0.002	0.003	0.002	-0.001	0.003	0.001	-0.001	0.003	0.007	0.005	0.008
180	0.000	-0.001	0.001	0.001	0.000	-0.001	0.001	0.000	-0.001	0.007	0.007	0.005
200	0.000	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.007	0.006	0.004

Average	0.001	-0.002	0.003	0.001	-0.002	0.003	0.001	-0.001	0.002	0.007	0.004	0.007
Minimum	0.000	-0.003	0.000	0.000	-0.003	-0.001	0.000	-0.003	-0.001	0.006	0.003	0.004
Maximum	0.003	0.000	0.006	0.002	0.000	0.005	0.002	0.001	0.004	0.007	0.007	0.009

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.003	0.000	0.004
Minimum	0.000	-0.003	-0.001
Maximum	0.007	0.007	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watt-hour 60 Hz Phase C

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	-0.002	0.001	0.000	-0.003	0.001	0.000	-0.003	0.002	0.002	-0.001	0.003
0.25	0.001	-0.001	0.003	0.001	-0.001	0.002	0.001	-0.001	0.002	0.002	-0.001	0.003
0.5	0.002	0.000	0.004	0.002	-0.001	0.002	0.002	-0.001	0.004	0.003	0.000	0.004
1	0.001	-0.003	0.003	0.001	-0.003	0.003	0.001	-0.003	0.003	0.002	-0.001	0.004
2.5	0.001	-0.001	0.001	0.001	-0.002	0.001	0.001	-0.002	0.001	0.002	0.000	0.002
3	0.001	-0.001	0.002	0.001	-0.002	0.001	0.001	-0.001	0.002	0.002	-0.001	0.003
5	0.001	-0.003	0.001	0.000	-0.003	0.002	0.000	-0.004	0.002	0.001	-0.002	0.004
10	0.000	-0.004	0.002	-0.001	-0.003	0.001	0.000	-0.003	0.001	0.001	-0.003	0.003
15	0.001	-0.001	0.003	0.001	-0.002	0.002	0.001	-0.002	0.004	0.003	-0.002	0.004
20	0.001	-0.002	0.001	0.000	-0.002	0.000	0.000	-0.003	0.001	0.002	-0.001	0.002
30	0.002	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.002	0.002	0.000	0.004
40	0.000	0.000	0.000	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.001	0.000	-0.001
50	0.000	0.000	-0.001	0.001	0.000	-0.001	0.001	0.000	-0.001	0.002	0.001	0.000
60	0.001	0.000	0.001	0.002	0.000	0.001	0.001	-0.001	0.001	0.002	0.001	0.002
100	0.001	0.002	-0.002	0.000	0.001	-0.003	0.000	0.001	-0.002	0.002	0.002	-0.002
120	0.001	0.002	-0.001	0.001	0.000	-0.001	0.001	0.002	0.000	0.003	0.002	0.001
180	0.000	0.004	-0.007	0.000	0.004	-0.006	0.000	0.004	-0.007	0.001	0.006	-0.004
200	0.000	0.005	-0.006	-0.001	0.004	-0.007	0.001	0.005	-0.005	0.002	0.005	-0.005

Average	0.001	0.000	0.000	0.001	-0.001	0.000	0.001	-0.001	0.000	0.002	0.000	0.001
Minimum	0.000	-0.004	-0.007	-0.001	-0.003	-0.007	0.000	-0.004	-0.007	0.001	-0.003	-0.005
Maximum	0.002	0.005	0.004	0.002	0.004	0.003	0.002	0.005	0.004	0.003	0.006	0.004

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.001
Minimum	-0.001	-0.004	-0.007
Maximum	0.003	0.006	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	Watt-hour	60 Hz	Total
Date.....	16-Oct-26	Uncertainty at Unity.....	0.002
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.004

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.2	0.001	-0.001	0.003	0.000	-0.001	0.002	0.000	-0.002	0.001	0.003	0.002	0.004
0.25	0.002	0.000	0.003	0.002	-0.001	0.002	0.001	-0.001	0.002	0.003	0.002	0.004
0.5	0.003	0.000	0.004	0.002	0.000	0.003	0.002	0.000	0.003	0.004	0.003	0.005
1	0.001	-0.002	0.003	0.001	-0.002	0.002	0.000	-0.002	0.002	0.003	0.001	0.005
2.5	0.001	-0.002	0.002	0.000	-0.002	0.002	0.000	-0.002	0.001	0.003	0.001	0.004
3	0.001	-0.001	0.002	0.001	-0.001	0.002	0.000	-0.001	0.002	0.003	0.001	0.004
5	0.000	-0.002	0.001	0.000	-0.002	0.001	0.000	-0.002	0.001	0.003	0.000	0.003
10	0.001	-0.002	0.002	0.000	-0.003	0.002	-0.001	-0.002	0.001	0.002	0.000	0.004
15	0.002	-0.001	0.003	0.001	-0.002	0.003	0.000	-0.001	0.002	0.003	0.001	0.005
20	0.001	-0.002	0.002	0.000	-0.002	0.001	0.000	-0.002	0.001	0.002	0.001	0.004
30	0.002	0.000	0.003	0.001	0.000	0.002	0.001	0.000	0.002	0.004	0.002	0.005
40	0.000	-0.001	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.002	0.002	0.002
50	0.001	-0.001	0.001	0.001	-0.001	0.000	0.001	-0.001	0.000	0.002	0.002	0.002
60	0.001	0.000	0.002	0.001	0.000	0.002	0.001	0.000	0.001	0.004	0.003	0.004
100	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.004	0.003	0.003
120	0.002	0.000	0.001	0.002	0.000	0.001	0.001	0.001	0.001	0.004	0.003	0.004
180	0.000	0.001	-0.002	0.000	0.003	-0.002	0.000	0.002	-0.003	0.003	0.006	0.000
200	0.001	0.003	-0.002	0.001	0.002	-0.003	0.001	0.003	-0.002	0.003	0.005	0.000

Average	0.001	-0.001	0.002	0.001	-0.001	0.001	0.000	-0.001	0.001	0.003	0.002	0.003
Minimum	0.000	-0.002	-0.002	0.000	-0.003	-0.003	-0.001	-0.002	-0.003	0.002	0.000	0.000
Maximum	0.003	0.003	0.004	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.006	0.005

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.002
Minimum	-0.001	-0.003	-0.003
Maximum	0.004	0.006	0.005

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watt-hour 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.002	0.005	-0.005	0.001	0.001	-0.004	0.000	0.003	-0.006	0.002	0.005	-0.002
0.02	0.000	0.005	-0.003	0.000	0.004	-0.004	-0.002	0.003	-0.005	0.001	0.005	-0.002
0.05	0.003	0.005	0.000	0.002	0.005	-0.001	0.002	0.005	-0.001	0.003	0.006	0.001

Phase B:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.001	-0.001	-0.007	0.002	0.006	-0.003	0.001	0.006	0.001	0.007	0.009	0.008
0.02	0.000	0.004	-0.005	0.001	0.004	-0.003	0.001	0.005	-0.001	0.006	0.009	0.003
0.05	0.002	0.004	0.001	0.004	0.004	0.002	0.004	0.004	0.004	0.009	0.010	0.009

Phase C:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.000	-0.001	0.002	0.001	-0.001	0.004	0.000	-0.002	0.006	0.002	0.000	0.003
0.02	-0.001	-0.002	0.002	0.001	-0.001	0.004	0.000	-0.002	0.003	0.001	0.001	0.004
0.05	0.001	0.000	0.005	0.003	-0.001	0.007	0.002	0.000	0.006	0.003	0.000	0.006

Total:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.001	0.001	-0.003	0.002	0.002	-0.001	0.001	0.002	0.000	0.003	0.004	0.003
0.02	0.000	0.002	-0.002	0.000	0.002	-0.001	-0.001	0.002	-0.001	0.003	0.005	0.002
0.05	0.002	0.004	0.001	0.003	0.003	0.002	0.002	0.003	0.002	0.005	0.006	0.005

Average	0.001	0.002	-0.001	0.001	0.002	0.000	0.001	0.002	0.001	0.004	0.005	0.003
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Minimum	-0.001	-0.002	-0.007	0.000	-0.001	-0.004	-0.002	-0.002	-0.006	0.001	0.000	-0.002
Maximum	0.003	0.005	0.005	0.004	0.006	0.007	0.004	0.006	0.006	0.009	0.010	0.009

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.002	0.003	0.001
Minimum	-0.002	-0.002	-0.007
Maximum	0.009	0.010	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watts 60 Hz Phase A

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.000	0.000	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.000
0.25	0.001	0.001	0.002	0.002	0.001	0.001	0.000	0.001	0.001	0.002	0.002	0.001
0.5	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.000	0.001	0.002	0.002	0.001
1	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.000	0.000
2.5	0.000	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	0.000	0.000
3	0.001	0.000	0.001	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.000	0.001
5	0.000	-0.001	0.000	-0.001	-0.001	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
10	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.000	0.000
15	0.001	0.000	0.003	0.002	0.000	0.002	0.000	-0.001	0.001	0.001	0.001	0.002
20	0.000	0.000	0.002	0.000	0.000	0.001	0.000	-0.001	0.000	0.001	0.001	0.001
30	0.002	0.001	0.003	0.001	0.001	0.002	0.001	0.000	0.001	0.002	0.002	0.001
40	-0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.000	0.000	-0.001
50	0.000	0.000	0.000	0.000	0.001	-0.001	0.000	-0.001	0.000	0.000	0.001	0.000
60	0.001	0.001	0.002	0.001	0.000	0.001	0.000	0.000	0.000	0.002	0.001	0.001
100	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.002	0.001	0.002	0.002	0.001
120	0.002	0.001	0.003	0.002	0.001	0.002	0.001	0.001	0.001	0.003	0.003	0.002
180	0.001	0.002	0.000	0.001	0.002	-0.001	0.000	0.003	-0.001	0.002	0.003	0.000
200	0.001	0.002	0.001	0.002	0.002	0.000	0.001	0.003	0.000	0.003	0.004	-0.001

Average	0.001	0.000	0.001	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001
Minimum	-0.001	-0.001	0.000	-0.001	-0.002	-0.001	-0.001	-0.002	-0.001	0.000	-0.001	-0.001
Maximum	0.002	0.002	0.003	0.002	0.002	0.002	0.001	0.003	0.001	0.003	0.004	0.002

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.001
Minimum	-0.001	-0.002	-0.001
Maximum	0.003	0.004	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watts 60 Hz Phase B

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.001	-0.003	0.004	0.000	-0.002	0.003	0.001	-0.002	0.003	0.006	0.004	0.008
0.25	0.003	-0.001	0.005	0.002	-0.001	0.003	0.001	-0.001	0.004	0.007	0.005	0.008
0.5	0.002	-0.002	0.005	0.002	-0.001	0.004	0.002	-0.002	0.004	0.007	0.005	0.008
1	0.002	-0.002	0.006	0.002	-0.002	0.005	0.001	-0.003	0.003	0.007	0.003	0.009
2.5	0.001	-0.002	0.004	0.001	-0.002	0.003	0.001	-0.002	0.003	0.007	0.003	0.008
3	0.002	-0.002	0.004	0.002	-0.003	0.004	0.002	-0.002	0.003	0.006	0.003	0.009
5	0.001	-0.003	0.004	0.001	-0.002	0.003	0.000	-0.002	0.001	0.006	0.003	0.007
10	0.001	-0.003	0.003	0.000	-0.003	0.002	0.000	-0.002	0.002	0.006	0.003	0.007
15	0.002	-0.002	0.003	0.002	-0.002	0.004	0.001	-0.002	0.002	0.007	0.004	0.008
20	0.000	-0.003	0.002	0.000	-0.003	0.001	0.000	-0.003	0.001	0.006	0.003	0.007
30	0.001	-0.002	0.003	0.001	-0.002	0.002	0.001	-0.001	0.002	0.007	0.004	0.008
40	0.001	-0.002	0.002	0.001	-0.002	0.002	0.000	-0.002	0.001	0.006	0.004	0.006
50	0.001	-0.002	0.002	0.001	-0.001	0.002	0.000	-0.002	0.001	0.006	0.005	0.007
60	0.002	-0.002	0.004	0.002	-0.002	0.004	0.002	-0.001	0.002	0.007	0.005	0.008
100	0.002	0.000	0.004	0.002	-0.001	0.003	0.002	0.000	0.003	0.007	0.006	0.008
120	0.002	-0.002	0.003	0.002	-0.001	0.003	0.001	-0.001	0.003	0.007	0.005	0.008
180	0.000	-0.001	0.001	0.001	0.000	-0.001	0.001	0.000	-0.001	0.007	0.007	0.005
200	0.000	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.007	0.006	0.004

Average	0.001	-0.002	0.003	0.001	-0.002	0.003	0.001	-0.001	0.002	0.007	0.004	0.007
Minimum	0.000	-0.003	0.000	0.000	-0.003	-0.001	0.000	-0.003	-0.001	0.006	0.003	0.004
Maximum	0.003	0.000	0.006	0.002	0.000	0.005	0.002	0.001	0.004	0.007	0.007	0.009

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.003	0.000	0.004
Minimum	0.000	-0.003	-0.001
Maximum	0.007	0.007	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watts 60 Hz Phase C

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	-0.002	0.001	0.000	-0.003	0.001	0.000	-0.003	0.002	0.002	-0.001	0.003
0.25	0.001	-0.001	0.003	0.001	-0.001	0.002	0.001	-0.001	0.002	0.002	-0.001	0.003
0.5	0.002	0.000	0.004	0.002	-0.001	0.002	0.002	-0.001	0.004	0.003	0.000	0.004
1	0.001	-0.003	0.003	0.001	-0.003	0.003	0.001	-0.004	0.003	0.002	-0.001	0.004
2.5	0.001	-0.001	0.001	0.001	-0.002	0.001	0.001	-0.002	0.001	0.002	0.000	0.002
3	0.001	-0.001	0.002	0.001	-0.002	0.001	0.001	-0.001	0.002	0.002	-0.001	0.003
5	0.001	-0.003	0.001	0.000	-0.003	0.002	0.000	-0.004	0.002	0.001	-0.002	0.004
10	0.000	-0.004	0.002	-0.001	-0.003	0.001	0.000	-0.004	0.001	0.001	-0.003	0.002
15	0.001	-0.001	0.003	0.001	-0.002	0.002	0.001	-0.002	0.004	0.003	-0.002	0.004
20	0.001	-0.002	0.001	0.000	-0.002	0.000	0.000	-0.003	0.001	0.002	-0.001	0.002
30	0.002	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.002	0.002	0.000	0.004
40	0.000	0.000	0.000	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.001	0.000	-0.001
50	0.000	0.000	-0.001	0.001	0.000	-0.002	0.001	0.000	-0.001	0.002	0.001	0.000
60	0.001	0.000	0.001	0.002	0.000	0.001	0.001	-0.001	0.001	0.002	0.001	0.002
100	0.001	0.002	-0.002	0.000	0.001	-0.003	0.000	0.001	-0.002	0.002	0.002	-0.002
120	0.001	0.002	-0.001	0.001	0.000	-0.001	0.001	0.002	0.000	0.003	0.002	0.000
180	0.000	0.004	-0.007	0.000	0.004	-0.006	0.000	0.004	-0.007	0.001	0.007	-0.004
200	0.000	0.005	-0.006	-0.001	0.004	-0.007	0.001	0.005	-0.005	0.002	0.005	-0.005

Average	0.001	0.000	0.000	0.001	-0.001	0.000	0.001	-0.001	0.000	0.002	0.000	0.001
Minimum	0.000	-0.004	-0.007	-0.001	-0.003	-0.007	0.000	-0.004	-0.007	0.001	-0.003	-0.005
Maximum	0.002	0.005	0.004	0.002	0.004	0.003	0.002	0.005	0.004	0.003	0.007	0.004

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.001
Minimum	-0.001	-0.004	-0.007
Maximum	0.003	0.007	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	Watts	60 Hz	Total
Date.....	16-Oct-26	Uncertainty at Unity.....	0.002
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.004

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.001	-0.001	0.002	0.000	-0.001	0.002	0.000	-0.002	0.001	0.003	0.002	0.004
0.25	0.002	0.000	0.003	0.002	-0.001	0.002	0.001	-0.001	0.002	0.003	0.002	0.004
0.5	0.003	0.000	0.004	0.002	0.000	0.003	0.002	0.000	0.003	0.004	0.003	0.004
1	0.001	-0.002	0.003	0.001	-0.002	0.002	0.000	-0.002	0.002	0.003	0.001	0.005
2.5	0.001	-0.002	0.002	0.000	-0.002	0.002	0.000	-0.002	0.001	0.003	0.001	0.004
3	0.001	-0.001	0.002	0.001	-0.001	0.002	0.000	-0.001	0.002	0.003	0.001	0.004
5	0.000	-0.002	0.001	0.000	-0.002	0.001	0.000	-0.002	0.001	0.003	0.000	0.003
10	0.001	-0.002	0.002	0.000	-0.003	0.002	-0.001	-0.002	0.001	0.002	0.000	0.004
15	0.002	-0.001	0.003	0.001	-0.002	0.003	0.000	-0.001	0.002	0.003	0.001	0.005
20	0.001	-0.002	0.002	0.000	-0.002	0.001	0.000	-0.002	0.001	0.002	0.001	0.004
30	0.002	0.000	0.003	0.001	0.000	0.002	0.001	0.000	0.002	0.004	0.002	0.005
40	0.000	-0.001	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.002	0.002	0.002
50	0.001	-0.001	0.001	0.001	-0.001	0.000	0.001	-0.001	0.000	0.002	0.002	0.002
60	0.001	0.000	0.002	0.001	0.000	0.002	0.001	0.000	0.001	0.004	0.003	0.004
100	0.001	0.001	0.001	0.001	0.000	0.001	0.001	0.001	0.001	0.004	0.003	0.003
120	0.002	0.000	0.001	0.002	0.000	0.001	0.001	0.001	0.001	0.004	0.003	0.004
180	0.000	0.001	-0.002	0.000	0.003	-0.002	0.000	0.002	-0.003	0.003	0.006	0.000
200	0.001	0.003	-0.002	0.001	0.002	-0.003	0.001	0.003	-0.002	0.003	0.005	0.000

Average	0.001	-0.001	0.002	0.001	-0.001	0.001	0.000	-0.001	0.001	0.003	0.002	0.003
Minimum	0.000	-0.002	-0.002	0.000	-0.003	-0.003	-0.001	-0.002	-0.003	0.002	0.000	0.000
Maximum	0.003	0.003	0.004	0.002	0.003	0.003	0.002	0.003	0.003	0.004	0.006	0.005

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.002
Minimum	-0.001	-0.003	-0.003
Maximum	0.004	0.006	0.005

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watts 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.002	0.005	-0.005	0.001	0.001	-0.004	0.000	0.003	-0.006	0.002	0.005	-0.002
0.02	0.000	0.005	-0.003	0.000	0.004	-0.004	-0.002	0.003	-0.005	0.000	0.005	-0.002
0.05	0.003	0.005	0.000	0.002	0.005	-0.001	0.002	0.005	-0.001	0.003	0.006	0.001

Phase B:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.000	-0.001	-0.007	0.002	0.006	-0.003	0.001	0.006	0.001	0.007	0.009	0.008
0.02	0.000	0.004	-0.005	0.001	0.004	-0.003	0.001	0.005	-0.001	0.006	0.009	0.003
0.05	0.002	0.004	0.001	0.004	0.004	0.002	0.004	0.004	0.004	0.009	0.010	0.009

Phase C:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.000	-0.001	0.002	0.001	-0.001	0.004	0.000	-0.002	0.006	0.002	0.000	0.003
0.02	-0.001	-0.002	0.002	0.001	-0.001	0.004	0.000	-0.002	0.003	0.001	0.001	0.004
0.05	0.001	0.000	0.005	0.003	-0.001	0.007	0.002	0.000	0.006	0.003	0.000	0.006

Total:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.001	0.001	-0.003	0.002	0.002	-0.001	0.001	0.002	0.000	0.003	0.004	0.003
0.02	0.000	0.002	-0.002	0.000	0.002	-0.001	-0.001	0.002	-0.001	0.003	0.005	0.002
0.05	0.002	0.004	0.001	0.003	0.003	0.002	0.002	0.003	0.002	0.005	0.006	0.005

Average	0.001	0.002	-0.001	0.001	0.002	0.000	0.001	0.002	0.001	0.004	0.005	0.003
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Minimum	-0.001	-0.002	-0.007	0.000	-0.001	-0.004	-0.002	-0.002	-0.006	0.000	0.000	-0.002
Maximum	0.003	0.005	0.005	0.004	0.006	0.007	0.004	0.006	0.006	0.009	0.010	0.009

Overall	Unity PF	0.5 Lag	0.5 Lead
Average	0.002	0.003	0.001
Minimum	-0.002	-0.002	-0.007
Maximum	0.009	0.010	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR-hour 60 Hz Phase A

Date..... 16-Oct-26 Uncertainty 0.003

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	0.001	0.003	0.000	0.000	0.000	-0.001	0.001	0.000
0.25	0.002	0.004	0.001	0.001	0.000	0.000	0.002	0.001
0.5	0.002	0.004	0.001	0.001	0.001	0.001	0.002	0.001
1	0.000	0.002	-0.001	0.000	-0.002	-0.001	-0.001	-0.001
2.5	-0.001	0.001	-0.002	-0.001	-0.002	-0.002	-0.001	-0.001
3	0.000	0.002	-0.001	0.000	-0.001	-0.002	0.000	-0.001
5	-0.001	0.000	-0.002	-0.001	-0.002	-0.002	-0.001	-0.001
10	0.000	0.002	-0.001	0.000	-0.001	-0.001	0.000	-0.001
15	0.001	0.003	0.001	0.002	-0.001	0.001	0.001	0.001
20	0.000	0.002	-0.001	0.000	-0.001	-0.001	0.000	0.000
30	0.002	0.003	0.001	0.002	0.000	0.001	0.001	0.002
40	-0.001	0.001	-0.001	-0.001	-0.003	-0.003	0.000	-0.002
50	0.001	0.001	0.000	0.001	-0.001	-0.002	0.000	-0.001
60	0.001	0.002	0.000	0.001	-0.002	0.000	0.001	0.000
100	0.001	0.002	0.000	0.000	-0.001	-0.002	0.000	-0.001
120	0.002	0.003	0.001	0.001	0.000	0.000	0.001	0.000
180	0.002	0.001	0.000	-0.001	-0.001	-0.002	0.000	-0.001
200	0.002	0.003	0.001	-0.001	0.000	-0.002	0.001	0.000

Average	0.001	0.002	0.000	0.000	-0.001	-0.001	0.000	0.000
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Minimum	-0.001	0.000	-0.002	-0.001	-0.003	-0.003	-0.001	-0.002
Maximum	0.002	0.004	0.001	0.002	0.001	0.001	0.002	0.002

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	0.000
Minimum	-0.003	-0.003
Maximum	0.002	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR-hour 60 Hz Phase B

Date..... 16-Oct-26 Uncertainty 0.002

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.002	0.001	-0.001	0.001	-0.001	0.002	0.008	0.007
0.25	-0.001	0.002	0.000	0.002	0.000	0.002	0.005	0.007
0.5	0.000	0.003	0.001	0.003	0.000	0.003	0.006	0.009
1	-0.001	0.002	-0.001	0.002	-0.002	0.002	0.004	0.006
2.5	-0.002	0.001	-0.001	0.001	-0.002	0.001	0.004	0.006
3	-0.001	0.001	-0.001	0.001	-0.002	0.000	0.004	0.006
5	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.005	0.006
10	-0.002	0.000	-0.002	0.000	-0.002	-0.001	0.004	0.005
15	-0.001	0.001	-0.001	0.002	-0.001	0.001	0.005	0.007
20	-0.003	0.000	-0.003	-0.001	-0.003	-0.002	0.003	0.004
30	-0.001	0.001	0.000	0.000	-0.001	0.000	0.005	0.007
40	-0.001	0.000	-0.001	0.000	-0.002	-0.001	0.004	0.005
50	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.004	0.005
60	-0.001	0.002	-0.001	0.001	-0.001	0.000	0.005	0.006
100	-0.001	0.002	-0.001	0.000	-0.001	0.000	0.004	0.006
120	-0.001	0.002	-0.001	0.001	-0.001	0.001	0.005	0.005
180	-0.002	-0.001	-0.002	-0.002	-0.003	-0.003	0.003	0.003
200	-0.001	0.000	-0.002	-0.003	-0.002	-0.002	0.004	0.005

Average	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.005	0.006
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Minimum	-0.003	-0.001	-0.003	-0.003	-0.003	-0.003	0.003	0.003
Maximum	0.000	0.003	0.001	0.003	0.000	0.003	0.008	0.009

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	0.002
Minimum	-0.003	-0.003
Maximum	0.008	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR-hour 60 Hz Phase C

Date..... 16-Oct-26 Uncertainty 0.002

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.001	0.003	-0.002	0.001	-0.002	0.000	0.000	0.002
0.25	0.000	0.004	0.002	0.002	0.000	0.002	0.002	0.002
0.5	0.000	0.004	0.001	0.002	0.000	0.002	0.002	0.003
1	-0.001	0.003	-0.001	0.001	-0.002	0.001	0.000	0.003
2.5	-0.001	0.001	-0.001	0.000	-0.002	-0.001	0.000	0.000
3	0.000	0.001	-0.001	0.001	-0.002	0.001	0.000	0.000
5	0.000	0.002	-0.001	0.000	-0.001	0.001	0.000	0.002
10	-0.001	0.002	-0.002	0.001	-0.002	0.000	-0.001	0.001
15	0.000	0.003	0.000	0.002	-0.001	0.002	0.000	0.002
20	0.000	0.000	-0.001	0.000	-0.002	0.000	0.000	0.000
30	0.001	0.002	0.000	0.002	0.000	0.000	0.001	0.002
40	-0.001	-0.001	-0.002	-0.002	-0.002	-0.003	-0.001	-0.001
50	0.000	0.000	-0.001	0.000	-0.001	-0.002	-0.001	-0.001
60	0.000	0.001	-0.002	-0.001	-0.002	-0.001	0.000	0.000
100	-0.001	-0.001	-0.002	-0.003	-0.003	-0.004	-0.002	-0.003
120	-0.001	0.001	-0.002	-0.002	-0.002	-0.003	-0.001	-0.003
180	0.000	-0.004	-0.002	-0.006	-0.003	-0.007	-0.002	-0.008
200	0.001	-0.003	-0.002	-0.006	-0.003	-0.007	-0.001	-0.005

Average	0.000	0.001	-0.001	0.000	-0.002	-0.001	0.000	0.000
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Minimum	-0.001	-0.004	-0.002	-0.006	-0.003	-0.007	-0.002	-0.008
Maximum	0.001	0.004	0.002	0.002	0.000	0.002	0.002	0.003

<u>Overall</u>	90°Lag	30°Lag
Average	-0.001	0.000
Minimum	-0.003	-0.008
Maximum	0.002	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR-hour 60 Hz Total
 Date..... 16-Oct-26 Uncertainty 0.004
 Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.001	0.002	0.000	0.000	-0.002	0.000	0.002	0.002
0.25	0.001	0.003	0.001	0.002	0.000	0.001	0.004	0.004
0.5	0.001	0.003	0.000	0.002	0.000	0.002	0.003	0.004
1	-0.001	0.002	-0.001	0.001	-0.002	0.001	0.001	0.003
2.5	-0.001	0.001	-0.001	0.000	-0.001	-0.001	0.001	0.002
3	-0.001	0.002	-0.001	0.000	-0.002	-0.001	0.001	0.003
5	-0.001	0.000	-0.001	0.001	-0.002	-0.001	0.001	0.002
10	-0.002	0.001	-0.001	0.000	-0.002	-0.001	0.001	0.003
15	0.000	0.002	0.000	0.002	0.000	0.001	0.002	0.003
20	-0.001	0.001	-0.001	0.000	-0.002	-0.001	0.001	0.002
30	0.000	0.002	0.000	0.001	0.000	0.001	0.003	0.004
40	-0.001	0.000	-0.002	-0.001	-0.002	-0.002	0.001	0.000
50	0.000	0.000	0.000	0.000	-0.001	-0.001	0.001	0.001
60	0.000	0.001	-0.001	0.000	-0.002	0.000	0.002	0.002
100	-0.001	0.001	-0.001	-0.001	-0.002	-0.003	0.001	0.002
120	0.000	0.002	-0.001	0.000	-0.001	0.000	0.001	0.001
180	-0.001	-0.001	-0.001	-0.003	-0.002	-0.003	0.000	-0.002
200	0.000	0.000	-0.001	-0.003	-0.002	-0.003	0.001	0.000
Average	0.000	0.001	-0.001	0.000	-0.001	-0.001	0.001	0.002
Minimum	-0.002	-0.001	-0.002	-0.003	-0.002	-0.003	0.000	-0.002
Maximum	0.001	0.003	0.001	0.002	0.000	0.002	0.004	0.004
<u>Overall</u>								
Average	90°Lag		30°Lag					
	0.000		0.001					
Minimum	-0.002		-0.003					
Maximum	0.004		0.004					

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR-hour 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	0.002	-0.002	-0.002	-0.003	-0.003	-0.008	-0.002	-0.007
0.02	0.000	-0.001	-0.001	-0.005	-0.002	-0.006	-0.001	-0.005
0.05	0.002	0.001	0.001	-0.001	0.000	-0.002	0.002	0.000

Phase B:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.003	-0.010	-0.002	-0.009	0.000	-0.007	0.004	0.003
0.02	-0.002	-0.006	-0.001	-0.004	-0.001	-0.002	0.007	0.002
0.05	0.000	-0.002	0.002	0.001	0.002	0.003	0.008	0.006

Phase C:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.001	0.002	0.000	0.001	-0.001	0.001	0.000	-0.002
0.02	-0.002	0.002	-0.001	0.003	-0.001	0.001	0.000	0.002
0.05	0.000	0.005	0.002	0.005	0.001	0.004	0.001	0.002

Total:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.001	-0.003	-0.001	-0.004	-0.002	-0.005	0.000	-0.003
0.02	-0.001	-0.003	-0.001	-0.002	-0.001	-0.003	0.002	0.000
0.05	0.001	0.002	0.002	0.002	0.001	0.002	0.003	0.001

Average	-0.001	-0.001	0.000	-0.001	-0.001	-0.002	0.002	0.000
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Minimum	-0.003	-0.010	-0.002	-0.009	-0.003	-0.008	-0.002	-0.007
Maximum	0.002	0.005	0.002	0.005	0.002	0.004	0.008	0.006

Overall	90°Lag	30°Lag
Average	0.000	-0.001
Minimum	-0.003	-0.010
Maximum	0.008	0.006

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Phase A

Date..... 16-Oct-26 Uncertainty 0.003

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAR calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	0.001	0.003	0.000	0.000	0.000	-0.001	0.001	0.000
0.25	0.002	0.004	0.001	0.000	0.000	0.000	0.002	0.001
0.5	0.002	0.004	0.001	0.001	0.001	0.001	0.002	0.001
1	0.000	0.002	-0.001	0.000	-0.002	-0.001	0.000	-0.001
2.5	-0.001	0.001	-0.002	-0.001	-0.002	-0.002	-0.001	-0.001
3	0.000	0.002	-0.001	0.000	-0.001	-0.002	0.000	-0.001
5	-0.001	0.000	-0.002	-0.001	-0.002	-0.002	-0.001	-0.001
10	0.000	0.002	-0.001	0.000	-0.001	-0.001	0.000	-0.001
15	0.001	0.003	0.001	0.002	-0.001	0.001	0.001	0.001
20	0.000	0.002	-0.001	0.000	-0.001	-0.001	0.000	0.000
30	0.002	0.003	0.001	0.002	0.000	0.001	0.001	0.002
40	-0.001	0.001	-0.001	-0.001	-0.002	-0.003	0.000	-0.002
50	0.001	0.001	0.000	0.001	-0.001	-0.002	0.000	-0.001
60	0.001	0.002	0.000	0.001	-0.002	0.000	0.001	0.000
100	0.001	0.002	0.000	0.000	-0.001	-0.002	0.000	-0.001
120	0.002	0.003	0.001	0.001	0.000	0.000	0.001	0.000
180	0.002	0.001	0.000	-0.001	-0.001	-0.002	0.000	-0.001
200	0.002	0.003	0.001	-0.001	0.000	-0.002	0.001	0.000

Average	0.001	0.002	0.000	0.000	-0.001	-0.001	0.000	0.000
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Minimum	-0.001	0.000	-0.002	-0.001	-0.002	-0.003	-0.001	-0.002
Maximum	0.002	0.004	0.001	0.002	0.001	0.001	0.002	0.002

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	0.000
Minimum	-0.002	-0.003
Maximum	0.002	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Phase B

Date..... 16-Oct-26 Uncertainty 0.002

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAR calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.002	0.001	-0.001	0.001	-0.001	0.002	0.005	0.007
0.25	-0.001	0.002	0.000	0.002	0.000	0.002	0.005	0.007
0.5	0.000	0.003	0.001	0.004	0.000	0.003	0.006	0.009
1	-0.001	0.002	-0.001	0.002	-0.002	0.002	0.004	0.006
2.5	-0.002	0.001	-0.001	0.001	-0.002	0.001	0.004	0.006
3	-0.001	0.001	-0.001	0.001	-0.002	0.001	0.004	0.006
5	-0.002	0.001	-0.001	0.001	-0.001	0.000	0.005	0.006
10	-0.002	0.000	-0.002	0.000	-0.002	-0.001	0.004	0.005
15	-0.001	0.001	-0.001	0.002	-0.001	0.001	0.005	0.007
20	-0.003	0.000	-0.003	-0.001	-0.003	-0.002	0.003	0.004
30	-0.001	0.001	0.000	0.000	-0.001	0.000	0.005	0.007
40	-0.002	0.000	-0.001	0.000	-0.002	-0.001	0.004	0.005
50	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.004	0.005
60	-0.001	0.002	-0.001	0.001	-0.001	0.000	0.005	0.006
100	-0.001	0.002	-0.001	0.000	-0.001	0.000	0.004	0.006
120	-0.001	0.002	-0.001	0.001	-0.001	0.001	0.005	0.005
180	-0.002	-0.001	-0.002	-0.002	-0.003	-0.003	0.003	0.003
200	-0.001	0.000	-0.002	-0.003	-0.002	-0.002	0.004	0.005

Average	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.004	0.006
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Minimum	-0.003	-0.001	-0.003	-0.003	-0.003	-0.003	0.003	0.003
Maximum	0.000	0.003	0.001	0.004	0.000	0.003	0.006	0.009

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	0.002
Minimum	-0.003	-0.003
Maximum	0.006	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Phase C

Date..... 16-Oct-26 Uncertainty 0.002

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAR calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.001	0.003	-0.002	0.000	-0.002	0.000	0.000	0.002
0.25	0.001	0.004	0.002	0.002	0.000	0.002	0.003	0.002
0.5	0.000	0.004	0.001	0.002	0.000	0.002	0.002	0.003
1	-0.001	0.003	-0.001	0.001	-0.002	0.001	0.000	0.003
2.5	-0.001	0.001	-0.001	0.000	-0.002	-0.001	0.000	0.000
3	0.000	0.001	-0.001	0.001	-0.002	0.001	0.000	0.000
5	0.000	0.002	-0.001	0.000	-0.001	0.001	0.000	0.002
10	-0.001	0.002	-0.002	0.001	-0.002	0.000	-0.001	0.001
15	0.000	0.003	0.000	0.002	-0.001	0.002	0.000	0.002
20	0.000	0.000	-0.001	0.000	-0.002	0.000	0.000	0.000
30	0.001	0.002	0.000	0.002	0.000	0.000	0.001	0.002
40	-0.001	-0.001	-0.002	-0.002	-0.002	-0.003	-0.001	-0.001
50	0.000	0.000	-0.001	0.000	-0.001	-0.002	-0.001	-0.001
60	0.000	0.001	-0.002	-0.001	-0.002	-0.001	0.000	0.000
100	-0.001	-0.001	-0.002	-0.003	-0.003	-0.004	-0.002	-0.003
120	-0.001	0.001	-0.002	-0.002	-0.002	-0.003	-0.001	-0.003
180	0.000	-0.004	-0.002	-0.007	-0.003	-0.007	-0.002	-0.008
200	0.001	-0.003	-0.002	-0.006	-0.003	-0.007	-0.001	-0.005

Average	0.000	0.001	-0.001	-0.001	-0.002	-0.001	0.000	0.000
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Minimum	-0.001	-0.004	-0.002	-0.007	-0.003	-0.007	-0.002	-0.008
Maximum	0.001	0.004	0.002	0.002	0.000	0.002	0.003	0.003

<u>Overall</u>	90°Lag	30°Lag
Average	-0.001	0.000
Minimum	-0.003	-0.008
Maximum	0.003	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Total

Date..... 16-Oct-26 Uncertainty 0.004

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAR calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.001	0.002	0.000	0.000	-0.002	0.000	0.002	0.002
0.25	0.001	0.003	0.001	0.002	0.000	0.001	0.004	0.004
0.5	0.001	0.003	0.000	0.002	0.000	0.002	0.003	0.004
1	-0.001	0.002	-0.001	0.001	-0.002	0.001	0.001	0.003
2.5	-0.001	0.001	-0.001	0.000	-0.001	-0.001	0.001	0.002
3	-0.001	0.002	-0.001	0.001	-0.002	-0.001	0.001	0.003
5	-0.001	0.000	-0.001	0.001	-0.002	-0.001	0.001	0.002
10	-0.002	0.001	-0.001	0.000	-0.002	-0.001	0.001	0.003
15	0.000	0.002	0.000	0.002	0.000	0.001	0.002	0.003
20	-0.001	0.001	-0.001	0.000	-0.002	-0.001	0.001	0.002
30	0.000	0.002	0.000	0.001	0.000	0.001	0.003	0.004
40	-0.001	0.000	-0.002	-0.001	-0.002	-0.002	0.001	0.000
50	0.000	0.000	0.000	0.000	-0.001	-0.001	0.001	0.001
60	0.000	0.001	-0.001	0.000	-0.002	0.000	0.002	0.002
100	-0.001	0.001	-0.001	-0.001	-0.002	-0.003	0.001	0.002
120	0.000	0.002	-0.001	0.000	-0.001	0.000	0.001	0.001
180	-0.001	-0.001	-0.001	-0.003	-0.002	-0.003	0.000	-0.002
200	0.000	0.000	-0.001	-0.003	-0.002	-0.003	0.001	0.000

Average	0.000	0.001	-0.001	0.000	-0.001	-0.001	0.001	0.002
Minimum	-0.002	-0.001	-0.002	-0.003	-0.002	-0.003	0.000	-0.002
Maximum	0.001	0.003	0.001	0.002	0.000	0.002	0.004	0.004

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	0.001
Minimum	-0.002	-0.003
Maximum	0.004	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAR calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NC SL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	0.002	-0.001	-0.002	-0.003	-0.003	-0.008	-0.002	-0.007
0.02	0.000	-0.001	-0.001	-0.005	-0.002	-0.006	-0.001	-0.005
0.05	0.002	0.001	0.001	-0.001	0.000	-0.002	0.002	0.000

Phase B:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.003	-0.011	-0.002	-0.009	0.000	-0.007	0.004	0.003
0.02	-0.002	-0.006	-0.001	-0.004	-0.001	-0.002	0.006	0.002
0.05	0.001	-0.002	0.002	0.001	0.002	0.003	0.009	0.008

Phase C:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.001	0.002	0.000	0.001	-0.001	0.001	0.000	-0.002
0.02	-0.002	0.002	-0.001	0.003	-0.001	0.001	0.000	0.001
0.05	0.000	0.005	0.002	0.005	0.001	0.004	0.002	0.004

Total:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.001	-0.002	-0.001	-0.004	-0.002	-0.005	0.000	-0.003
0.02	-0.001	-0.003	-0.001	-0.002	-0.001	-0.003	0.001	-0.001
0.05	0.001	0.002	0.002	0.002	0.001	0.002	0.004	0.004
Average	0.000	-0.001	0.000	-0.001	-0.001	-0.002	0.002	0.000
Minimum	-0.003	-0.011	-0.002	-0.009	-0.003	-0.008	-0.002	-0.007
Maximum	0.002	0.005	0.002	0.005	0.002	0.004	0.009	0.008

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	-0.001
Minimum	-0.003	-0.011
Maximum	0.009	0.008

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....VA-hour RMS 60 Hz Phase A

Date..... 16-Oct-26 Uncertainty at Unity..... 0.002

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.001	0.000	0.002	0.001	0.000	0.002	0.000	-0.001	0.001	0.001	0.001	0.002
0.25	0.001	0.001	0.002	0.002	0.001	0.002	0.000	0.000	0.002	0.002	0.002	0.002
0.5	0.002	0.002	0.003	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002
1	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.000	-0.001	0.001
2.5	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.000	-0.001	0.001
3	0.001	0.000	0.001	0.001	-0.001	0.002	0.000	-0.002	0.001	0.001	0.000	0.001
5	0.000	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
10	0.000	-0.001	0.001	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.001	0.000	0.001
15	0.001	0.000	0.002	0.001	0.000	0.002	0.000	-0.001	0.002	0.001	0.001	0.002
20	0.001	-0.001	0.001	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.001
30	0.002	0.001	0.002	0.001	0.001	0.001	0.001	-0.001	0.002	0.002	0.001	0.003
40	-0.001	-0.001	0.001	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.000	0.000	0.000
50	0.001	0.000	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	0.000	0.001
60	0.001	0.001	0.002	0.001	0.000	0.002	0.000	-0.001	0.002	0.002	0.001	0.002
100	0.002	0.000	0.002	0.001	0.000	0.002	0.001	-0.001	0.002	0.002	0.000	0.003
120	0.002	0.001	0.002	0.002	0.000	0.002	0.001	-0.001	0.003	0.003	0.001	0.003
180	0.001	0.001	0.002	0.001	0.000	0.002	0.001	0.000	0.003	0.002	0.000	0.002
200	0.001	0.002	0.002	0.002	0.001	0.002	0.001	0.000	0.002	0.002	0.001	0.003

Average	0.001	0.000	0.002	0.001	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.002
Minimum	-0.001	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
Maximum	0.002	0.002	0.003	0.002	0.001	0.002	0.001	0.001	0.003	0.003	0.002	0.003

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.002
Minimum	-0.001	-0.002	0.000
Maximum	0.003	0.002	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....VA-hour RMS 60 Hz Phase B

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	-0.001	0.002	0.000	0.000	0.001	0.000	0.000	0.001	0.006	0.006	0.006
0.25	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.000	0.002	0.007	0.006	0.007
0.5	0.001	0.000	0.002	0.002	0.001	0.002	0.001	0.001	0.002	0.007	0.007	0.007
1	0.001	-0.001	0.003	0.001	-0.001	0.002	0.002	0.000	0.002	0.007	0.005	0.008
2.5	0.000	0.000	0.001	0.001	0.000	0.001	0.001	-0.001	0.001	0.007	0.005	0.006
3	0.001	-0.001	0.003	0.001	-0.001	0.002	0.001	0.000	0.002	0.006	0.005	0.007
5	0.001	-0.001	0.001	0.001	-0.001	0.001	0.000	-0.001	0.001	0.006	0.005	0.006
10	0.000	-0.002	0.001	0.000	-0.001	0.001	0.000	-0.002	0.000	0.006	0.004	0.006
15	0.001	0.000	0.002	0.002	-0.001	0.001	0.001	0.000	0.001	0.007	0.005	0.006
20	0.000	-0.002	0.000	-0.001	-0.001	0.001	0.000	-0.002	0.001	0.005	0.004	0.005
30	0.001	0.000	0.000	0.001	0.000	0.000	0.001	-0.001	0.001	0.007	0.005	0.006
40	0.000	-0.001	0.000	0.001	-0.001	0.001	0.000	-0.001	0.001	0.006	0.005	0.006
50	0.000	-0.001	0.001	0.001	-0.001	0.001	0.000	0.000	0.001	0.006	0.005	0.006
60	0.001	-0.001	0.002	0.002	0.000	0.002	0.002	-0.001	0.002	0.007	0.005	0.007
100	0.002	0.000	0.003	0.002	0.000	0.003	0.002	0.000	0.003	0.007	0.006	0.008
120	0.002	-0.001	0.002	0.002	-0.001	0.003	0.002	-0.001	0.003	0.007	0.004	0.009
180	0.000	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.002	0.007	0.004	0.007
200	0.000	-0.001	0.001	0.001	-0.001	0.002	0.001	-0.001	0.002	0.007	0.004	0.007

Average	0.001	-0.001	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.007	0.005	0.007
Minimum	0.000	-0.002	0.000	-0.001	-0.001	0.000	0.000	-0.002	0.000	0.005	0.004	0.005
Maximum	0.002	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.003	0.007	0.007	0.009

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.002	0.001	0.003
Minimum	-0.001	-0.002	0.000
Maximum	0.007	0.007	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....VA-hour RMS 60 Hz Phase C

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	-0.001	0.001	0.001	-0.002	0.000	0.001	-0.002	0.000	0.002	0.000	0.001
0.25	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.002	0.001	0.003
0.5	0.002	0.000	0.003	0.002	0.001	0.001	0.002	0.000	0.002	0.003	0.002	0.003
1	0.001	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.001	0.002	0.000	0.002
2.5	0.000	-0.001	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.002	-0.001	0.001
3	0.002	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.002	0.002	0.000	0.002
5	0.001	0.000	0.000	0.000	-0.001	0.000	0.000	-0.001	0.001	0.001	0.000	0.001
10	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.002	0.000	0.001	-0.001	0.001
15	0.001	0.000	0.002	0.001	0.000	0.001	0.001	0.000	0.001	0.003	0.000	0.002
20	0.000	-0.001	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.000	0.001
30	0.002	0.001	0.002	0.001	0.000	0.001	0.001	0.000	0.002	0.002	0.001	0.003
40	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.002	0.000	0.001	-0.001	0.001
50	0.000	0.000	0.000	0.001	-0.001	0.000	0.000	-0.001	0.000	0.002	-0.001	0.001
60	0.001	0.000	0.002	0.002	0.000	0.002	0.001	-0.001	0.002	0.002	0.000	0.003
100	0.000	-0.001	0.000	0.000	-0.002	0.001	0.000	-0.002	0.001	0.002	-0.001	0.003
120	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.002	0.003	0.000	0.003
180	0.000	0.000	-0.001	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.002	-0.001	0.001
200	0.000	0.000	-0.002	0.000	-0.001	0.001	0.000	-0.002	0.001	0.001	-0.001	0.001

Average	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.002	0.000	0.002
Minimum	0.000	-0.001	-0.002	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.001	-0.001	0.001
Maximum	0.002	0.001	0.003	0.002	0.001	0.002	0.002	0.000	0.002	0.003	0.002	0.003

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	-0.001	0.001
Minimum	-0.001	-0.002	-0.002
Maximum	0.003	0.002	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	VA-hour RMS	60 Hz	Total
Date.....	16-Oct-26	Uncertainty at Unity.....	0.002
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.004

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.2	0.001	-0.001	0.002	0.001	0.000	0.001	0.001	0.000	0.001	0.003	0.002	0.003
0.25	0.002	0.000	0.002	0.002	0.001	0.002	0.001	0.000	0.001	0.003	0.002	0.004
0.5	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.000	0.002	0.004	0.003	0.004
1	0.001	0.000	0.002	0.001	-0.001	0.001	0.000	-0.001	0.002	0.003	0.002	0.004
2.5	0.001	0.000	0.001	0.000	-0.001	0.001	0.000	-0.001	0.001	0.002	0.001	0.002
3	0.001	-0.001	0.002	0.000	-0.001	0.001	0.000	-0.001	0.001	0.003	0.001	0.004
5	0.000	-0.001	0.001	0.000	-0.001	0.000	0.000	-0.002	0.001	0.003	0.002	0.003
10	0.000	-0.001	0.001	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.002	0.001	0.002
15	0.001	0.000	0.002	0.002	-0.001	0.001	0.000	-0.001	0.001	0.003	0.002	0.004
20	0.000	-0.002	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.001	0.002
30	0.002	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.002	0.004	0.003	0.003
40	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.002	0.000	0.002	0.001	0.003
50	0.000	0.000	0.001	0.001	0.000	0.000	0.001	-0.001	0.000	0.002	0.001	0.003
60	0.001	0.001	0.002	0.001	0.000	0.002	0.001	-0.001	0.002	0.004	0.002	0.004
100	0.001	0.000	0.001	0.001	0.000	0.002	0.001	-0.001	0.002	0.004	0.002	0.004
120	0.001	0.000	0.002	0.001	-0.001	0.002	0.001	-0.001	0.003	0.004	0.001	0.005
180	0.000	0.000	0.001	0.000	-0.002	0.001	0.000	-0.001	0.001	0.003	0.001	0.003
200	0.000	0.000	0.001	0.001	0.000	0.001	0.001	-0.001	0.001	0.003	0.002	0.004

Average	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.003	0.002	0.003
Minimum	0.000	-0.002	0.000	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.002	0.001	0.002
Maximum	0.002	0.001	0.002	0.002	0.001	0.002	0.001	0.000	0.003	0.004	0.003	0.005

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.002
Minimum	-0.001	-0.002	0.000
Maximum	0.004	0.003	0.005

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....VA-hour RMS 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	0.003	-0.001	0.001	0.001	0.000	0.002	-0.001	-0.003	0.000	0.002	-0.001	0.004
0.02	0.000	0.000	0.000	0.000	-0.002	-0.001	-0.002	-0.002	-0.002	0.001	-0.001	0.001
0.05	0.003	0.003	0.001	0.002	0.002	0.001	0.000	0.000	0.000	0.003	0.003	0.003

Phase B:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	-0.001	-0.001	-0.001	0.001	0.002	-0.001	-0.001	0.001	0.003	0.007	0.006	0.007
0.02	-0.001	-0.001	-0.001	0.001	0.000	-0.001	0.000	0.000	0.001	0.007	0.007	0.006
0.05	0.001	0.001	0.001	0.003	0.002	0.002	0.003	0.003	0.002	0.009	0.010	0.009

Phase C:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	-0.001	0.000	0.001	0.001	0.000	0.002	0.000	-0.001	0.002	0.002	-0.001	0.004
0.02	-0.001	-0.001	-0.001	0.001	-0.001	0.000	0.000	-0.001	0.000	0.000	0.000	0.002
0.05	0.001	0.000	0.000	0.002	0.001	0.002	0.001	0.001	0.002	0.003	0.002	0.003

Total:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	0.001	-0.001	0.000	0.001	0.001	0.001	0.000	-0.002	0.002	0.004	0.001	0.004
0.02	-0.001	-0.001	-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.003	0.003	0.003
0.05	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005

Average	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.004	0.003	0.004
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Minimum	-0.001	-0.001	-0.001	0.000	-0.002	-0.001	-0.002	-0.003	-0.002	0.000	-0.001	0.001
Maximum	0.003	0.003	0.001	0.003	0.002	0.002	0.003	0.003	0.003	0.009	0.010	0.009

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.001	0.001
Minimum	-0.002	-0.003	-0.002
Maximum	0.009	0.010	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VA RMS 60 Hz Phase A

Date..... 16-Oct-26 Uncertainty at Unity..... 0.002

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VA calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.001	0.000	0.002	0.001	0.000	0.002	0.000	-0.001	0.001	0.001	0.001	0.002
0.25	0.001	0.001	0.002	0.002	0.001	0.002	0.000	0.000	0.002	0.002	0.002	0.002
0.5	0.002	0.002	0.003	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002
1	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.000	-0.001	0.001
2.5	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.000	-0.001	0.001
3	0.001	-0.001	0.001	0.001	-0.001	0.002	0.000	-0.002	0.001	0.001	0.000	0.001
5	0.000	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
10	0.000	-0.001	0.001	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.001	0.000	0.001
15	0.001	0.000	0.002	0.001	0.000	0.002	0.000	-0.001	0.002	0.001	0.001	0.002
20	0.001	-0.001	0.001	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.001
30	0.002	0.001	0.002	0.001	0.001	0.001	0.001	-0.001	0.002	0.002	0.001	0.003
40	-0.001	-0.001	0.001	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.000	0.000	0.000
50	0.001	0.000	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	0.000	0.001
60	0.001	0.001	0.002	0.001	0.000	0.002	0.000	-0.001	0.002	0.002	0.001	0.002
100	0.002	0.000	0.002	0.001	0.000	0.002	0.001	-0.001	0.002	0.002	0.000	0.003
120	0.002	0.001	0.002	0.002	0.000	0.002	0.001	-0.001	0.003	0.003	0.001	0.003
180	0.001	0.001	0.002	0.001	-0.001	0.002	0.001	0.000	0.003	0.002	0.000	0.002
200	0.001	0.002	0.002	0.002	0.001	0.002	0.001	0.000	0.002	0.002	0.001	0.003

Average	0.001	0.000	0.002	0.001	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.002
Minimum	-0.001	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
Maximum	0.002	0.002	0.003	0.002	0.001	0.002	0.001	0.001	0.003	0.003	0.002	0.003

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.002
Minimum	-0.001	-0.002	0.000
Maximum	0.003	0.002	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VA RMS 60 Hz Phase B

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VA calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.000	-0.001	0.002	0.000	0.000	0.001	0.000	0.000	0.001	0.006	0.006	0.006
0.25	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.000	0.002	0.007	0.006	0.007
0.5	0.001	0.000	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.007	0.007	0.007
1	0.001	-0.001	0.003	0.001	-0.001	0.002	0.002	0.000	0.002	0.007	0.005	0.008
2.5	0.000	0.000	0.001	0.001	0.000	0.001	0.001	-0.001	0.001	0.007	0.005	0.006
3	0.001	-0.001	0.003	0.001	-0.001	0.002	0.001	0.000	0.002	0.006	0.005	0.007
5	0.001	-0.001	0.001	0.001	-0.001	0.001	0.000	-0.001	0.001	0.006	0.005	0.006
10	0.000	-0.002	0.001	0.000	-0.001	0.001	0.000	-0.002	0.000	0.006	0.004	0.006
15	0.001	0.000	0.002	0.002	-0.001	0.001	0.001	0.000	0.001	0.007	0.005	0.006
20	0.000	-0.002	0.000	-0.001	-0.001	0.001	0.000	-0.002	0.001	0.005	0.004	0.005
30	0.001	0.000	0.001	0.001	0.000	0.000	0.001	-0.001	0.001	0.007	0.005	0.006
40	0.000	-0.001	0.000	0.001	-0.001	0.001	0.000	-0.001	0.001	0.006	0.005	0.006
50	0.000	-0.001	0.001	0.001	-0.001	0.001	0.000	0.000	0.001	0.006	0.005	0.006
60	0.001	-0.001	0.002	0.002	0.000	0.002	0.002	-0.001	0.002	0.007	0.005	0.007
100	0.002	0.000	0.003	0.002	0.000	0.003	0.002	0.000	0.003	0.007	0.006	0.008
120	0.002	-0.001	0.002	0.002	-0.001	0.003	0.002	-0.001	0.003	0.007	0.004	0.009
180	0.000	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.002	0.007	0.004	0.007
200	0.000	-0.001	0.001	0.001	-0.001	0.002	0.001	-0.001	0.002	0.007	0.004	0.007

Average	0.001	-0.001	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.007	0.005	0.007
Minimum	0.000	-0.002	0.000	-0.001	-0.001	0.000	0.000	-0.002	0.000	0.005	0.004	0.005
Maximum	0.002	0.001	0.003	0.002	0.001	0.003	0.002	0.001	0.003	0.007	0.007	0.009

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.002	0.001	0.003
Minimum	-0.001	-0.002	0.000
Maximum	0.007	0.007	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VA RMS 60 Hz Phase C

Date..... 16-Oct-26 Uncertainty at Unity..... 0.001

Serial Number..... XXXXXX Uncertainty at 60° Phase Angle.... 0.002

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VA calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	-0.001	0.001	0.001	-0.002	0.000	0.001	-0.002	0.000	0.002	0.000	0.001
0.25	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.000	0.001	0.002	0.001	0.003
0.5	0.002	0.000	0.003	0.002	0.001	0.001	0.002	0.000	0.002	0.003	0.002	0.003
1	0.001	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.001	0.002	0.000	0.002
2.5	0.000	-0.001	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.002	-0.001	0.001
3	0.002	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.002	0.002	0.000	0.002
5	0.001	0.000	0.000	0.000	-0.001	0.000	0.000	-0.001	0.001	0.001	0.000	0.001
10	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.002	0.000	0.001	-0.001	0.001
15	0.001	0.000	0.002	0.001	0.000	0.001	0.001	0.000	0.001	0.003	0.000	0.002
20	0.000	-0.001	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.000	0.001
30	0.002	0.001	0.002	0.001	0.000	0.001	0.001	0.000	0.002	0.002	0.001	0.003
40	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.002	0.000	0.001	-0.001	0.001
50	0.000	0.000	0.000	0.001	-0.001	0.000	0.000	-0.001	0.000	0.002	-0.001	0.001
60	0.001	0.000	0.002	0.002	0.000	0.002	0.001	-0.001	0.002	0.002	0.000	0.003
100	0.000	-0.001	0.000	0.000	-0.002	0.001	0.000	-0.002	0.001	0.002	-0.001	0.003
120	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.002	0.003	0.000	0.003
180	0.000	0.000	-0.001	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.002	-0.001	0.001
200	0.000	0.000	-0.002	0.000	-0.001	0.001	0.000	-0.002	0.001	0.001	-0.001	0.001

Average	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.002	0.000	0.002
Minimum	0.000	-0.001	-0.002	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.001	-0.001	0.001
Maximum	0.002	0.001	0.003	0.002	0.001	0.002	0.002	0.000	0.002	0.003	0.002	0.003

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	-0.001	0.001
Minimum	-0.001	-0.002	-0.002
Maximum	0.003	0.002	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	VA RMS	60 Hz	Total
Date.....	16-Oct-26	Uncertainty at Unity.....	0.002
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.004

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VA calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.001	-0.001	0.002	0.001	0.000	0.001	0.001	0.000	0.001	0.003	0.002	0.003
0.25	0.002	0.000	0.002	0.002	0.001	0.001	0.001	0.000	0.001	0.003	0.002	0.004
0.5	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.000	0.002	0.004	0.003	0.004
1	0.001	0.000	0.002	0.001	-0.001	0.001	0.000	-0.001	0.002	0.003	0.002	0.004
2.5	0.001	0.000	0.001	0.000	-0.001	0.001	0.000	-0.001	0.001	0.002	0.001	0.002
3	0.001	-0.001	0.002	0.000	-0.001	0.001	0.000	-0.001	0.001	0.003	0.001	0.004
5	0.000	-0.001	0.001	0.000	-0.001	0.000	0.000	-0.002	0.001	0.003	0.002	0.003
10	0.000	-0.001	0.001	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.002	0.001	0.002
15	0.001	0.000	0.002	0.002	-0.001	0.001	0.000	-0.001	0.001	0.003	0.002	0.004
20	0.000	-0.002	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.001	0.002
30	0.002	0.001	0.001	0.001	0.000	0.001	0.001	0.000	0.002	0.004	0.003	0.003
40	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.002	0.000	0.002	0.001	0.003
50	0.000	0.000	0.001	0.001	0.000	0.000	0.001	-0.001	0.000	0.002	0.001	0.003
60	0.001	0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.002	0.004	0.002	0.004
100	0.001	0.000	0.001	0.001	0.000	0.002	0.001	-0.001	0.002	0.004	0.002	0.004
120	0.001	0.000	0.002	0.001	-0.001	0.002	0.001	-0.001	0.003	0.004	0.001	0.005
180	0.000	0.000	0.001	0.000	-0.002	0.001	0.000	-0.001	0.001	0.003	0.001	0.003
200	0.000	0.000	0.001	0.001	0.000	0.001	0.001	-0.001	0.001	0.003	0.002	0.004

Average	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.003	0.002	0.003
Minimum	0.000	-0.002	0.000	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.002	0.001	0.002
Maximum	0.002	0.001	0.002	0.002	0.001	0.002	0.001	0.000	0.003	0.004	0.003	0.005

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	0.002
Minimum	-0.001	-0.002	0.000
Maximum	0.004	0.003	0.005

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VA RMS 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	0.003	-0.001	0.001	0.001	0.000	0.002	-0.001	-0.003	0.000	0.002	-0.001	0.004
0.02	0.000	0.000	0.000	0.000	-0.002	-0.001	-0.002	-0.002	-0.002	0.001	-0.001	0.001
0.05	0.003	0.003	0.001	0.002	0.002	0.001	0.001	0.000	0.000	0.003	0.003	0.003

Phase B:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	-0.001	-0.001	-0.001	0.000	0.002	-0.001	-0.001	0.001	0.003	0.007	0.006	0.007
0.02	-0.001	-0.001	-0.001	0.001	0.000	-0.001	0.000	0.000	0.001	0.007	0.007	0.006
0.05	0.001	0.001	0.001	0.003	0.002	0.002	0.003	0.003	0.002	0.009	0.010	0.009

Phase C:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	-0.001	0.000	0.001	0.001	0.000	0.002	0.000	-0.001	0.002	0.002	-0.001	0.004
0.02	-0.001	-0.001	-0.001	0.001	-0.001	0.000	0.000	-0.001	0.000	0.001	0.000	0.002
0.05	0.001	0.000	0.000	0.002	0.001	0.002	0.001	0.001	0.002	0.003	0.002	0.003

Total:

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.005	0.001	-0.001	0.000	0.001	0.001	0.001	0.000	-0.002	0.002	0.004	0.001	0.004
0.02	-0.001	-0.001	-0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	0.003	0.003	0.003
0.05	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005

Average	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.004	0.003	0.004
---------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------	-------

Minimum	-0.001	-0.001	-0.001	0.000	-0.002	-0.001	-0.002	-0.003	-0.002	0.001	-0.001	0.001
Maximum	0.003	0.003	0.001	0.003	0.002	0.002	0.003	0.003	0.003	0.009	0.010	0.009

Overall	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.001	0.001
Minimum	-0.002	-0.003	-0.002
Maximum	0.009	0.010	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Qh RMS 60 Hz Phase A

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Q-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	-0.001	0.000	0.001	-0.001	0.000	0.001	-0.002	-0.001	0.000	-0.001	0.001	0.002
0.25	0.001	0.002	0.001	0.000	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.002
0.5	0.001	0.001	0.000	0.000	0.000	0.000	-0.001	-0.001	0.000	0.001	0.001	0.001
1	0.000	0.000	0.000	-0.001	-0.001	0.000	-0.002	-0.001	-0.001	-0.001	0.000	0.001
2.5	-0.001	0.000	0.000	-0.002	-0.001	0.000	-0.002	-0.001	-0.001	-0.001	0.000	0.001
3	0.000	0.000	0.000	-0.001	0.000	0.000	-0.002	-0.001	0.000	-0.001	0.000	0.001
5	-0.002	-0.001	-0.001	-0.003	-0.002	-0.001	-0.004	-0.003	-0.002	-0.002	-0.001	0.000
10	0.000	0.000	0.000	-0.001	-0.001	0.000	-0.002	-0.001	-0.001	-0.001	0.001	0.001
15	0.001	0.001	0.001	0.000	0.000	0.000	-0.001	0.000	0.000	0.000	0.001	0.002
20	0.000	0.001	0.001	-0.001	0.000	0.000	-0.002	0.000	0.000	0.000	0.001	0.002
30	0.001	0.002	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	0.001	0.002	0.003
40	-0.001	0.000	-0.001	-0.003	-0.001	-0.001	-0.004	-0.002	-0.001	-0.003	0.000	0.001
50	-0.001	0.000	0.000	-0.002	-0.001	-0.001	-0.003	-0.001	0.000	-0.002	0.000	0.001
60	0.000	0.001	0.000	-0.001	0.000	0.000	-0.003	-0.001	0.000	-0.001	0.001	0.002
100	0.001	0.002	0.000	-0.001	0.000	0.000	-0.002	0.000	0.000	-0.001	0.001	0.002
120	0.002	0.002	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.002	0.002
180	0.000	0.002	-0.001	-0.001	0.001	0.000	-0.003	0.000	0.001	-0.001	0.001	0.003
200	0.003	0.003	-0.001	0.000	0.002	0.001	-0.002	0.001	0.001	-0.001	0.002	0.004

Average	0.000	0.001	0.000	-0.001	0.000	0.000	-0.002	-0.001	0.000	-0.001	0.001	0.002
Minimum	-0.002	-0.001	-0.001	-0.003	-0.002	-0.001	-0.004	-0.003	-0.002	-0.003	-0.001	0.000
Maximum	0.003	0.003	0.001	0.000	0.002	0.001	0.000	0.001	0.001	0.001	0.002	0.004

Overall	Unity PF	0.5 Lag	0.5 Lead
Average	-0.001	0.000	0.000
Minimum	-0.004	-0.003	-0.002
Maximum	0.003	0.003	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Qh RMS 60 Hz Phase B

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Q-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	0.000	-0.001	0.001	0.000	-0.001	0.001	0.001	0.000	0.007	0.006	0.005
0.25	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.007	0.008	0.006
0.5	0.001	0.000	-0.001	0.001	0.001	-0.001	0.002	0.001	-0.001	0.007	0.007	0.005
1	0.001	0.001	0.000	0.002	0.002	0.000	0.002	0.002	0.000	0.008	0.008	0.006
2.5	0.000	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.007	0.007	0.006
3	0.001	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.001	0.007	0.007	0.006
5	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.006	0.006
10	0.000	0.000	-0.001	0.001	0.000	-0.001	0.000	0.000	-0.001	0.006	0.006	0.005
15	0.001	0.000	-0.001	0.001	0.001	0.000	0.002	0.001	-0.001	0.007	0.007	0.006
20	-0.001	-0.001	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.001	0.006	0.006	0.005
30	0.000	0.001	0.000	0.002	0.001	0.000	0.001	0.001	0.000	0.007	0.007	0.006
40	-0.001	-0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.006	0.006
50	0.000	0.000	0.000	0.000	0.001	0.000	0.000	0.001	0.000	0.006	0.006	0.006
60	0.000	0.001	0.000	0.001	0.001	0.000	0.000	0.001	0.001	0.007	0.007	0.006
100	0.002	0.002	0.000	0.002	0.002	0.001	0.002	0.002	0.001	0.006	0.008	0.008
120	0.001	0.002	0.001	0.001	0.002	0.000	0.002	0.002	0.001	0.007	0.007	0.007
180	-0.002	0.001	-0.001	-0.001	0.001	0.000	-0.002	0.001	0.001	0.005	0.006	0.007
200	0.000	0.001	-0.001	-0.001	0.001	0.001	-0.001	0.000	0.000	0.004	0.007	0.007

Average	0.000	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.006	0.007	0.006
Minimum	-0.002	-0.001	-0.001	-0.001	0.000	-0.001	-0.002	0.000	-0.001	0.004	0.006	0.005
Maximum	0.002	0.002	0.001	0.002	0.002	0.001	0.002	0.002	0.001	0.008	0.008	0.008

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.002	0.002	0.001
Minimum	-0.002	-0.001	-0.001
Maximum	0.008	0.008	0.008

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Qh RMS 60 Hz Phase C

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Q-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.001	-0.001	-0.003	0.001	-0.001	-0.004	0.001	-0.001	-0.003	0.002	0.000	-0.002
0.25	0.002	0.000	-0.003	0.004	0.001	-0.003	0.003	0.001	-0.002	0.004	0.001	-0.001
0.5	0.003	0.001	-0.003	0.004	0.001	-0.003	0.004	0.001	-0.003	0.004	0.002	-0.001
1	0.002	-0.001	-0.003	0.002	0.000	-0.004	0.003	-0.001	-0.003	0.003	0.001	-0.002
2.5	0.000	-0.001	-0.003	0.002	0.000	-0.003	0.001	-0.001	-0.002	0.002	0.001	-0.001
3	0.001	0.000	-0.002	0.002	0.000	-0.002	0.001	0.000	-0.002	0.002	0.001	0.000
5	0.001	-0.001	-0.004	0.002	-0.001	-0.004	0.001	-0.001	-0.004	0.002	0.000	-0.003
10	0.001	-0.001	-0.004	0.002	-0.001	-0.004	0.001	-0.001	-0.003	0.003	0.000	-0.002
15	0.003	0.000	-0.003	0.004	0.001	-0.003	0.003	0.000	-0.003	0.004	0.001	-0.001
20	0.001	-0.001	-0.003	0.001	0.000	-0.003	0.001	-0.001	-0.002	0.001	0.001	-0.001
30	0.002	0.001	-0.002	0.003	0.001	-0.002	0.002	0.001	-0.001	0.003	0.002	0.000
40	-0.001	-0.001	-0.003	0.000	-0.001	-0.002	-0.002	-0.001	-0.002	-0.001	0.000	0.001
50	0.000	0.000	-0.002	0.000	0.000	-0.001	0.000	0.000	-0.001	0.000	0.001	0.000
60	0.001	0.001	-0.002	0.001	0.001	-0.002	0.000	0.000	0.000	0.001	0.001	0.000
100	-0.001	0.000	-0.004	-0.001	0.000	-0.001	-0.003	-0.001	-0.001	-0.002	0.000	0.002
120	0.001	0.001	-0.003	-0.001	0.001	-0.001	-0.001	0.000	0.000	-0.002	0.001	0.001
180	-0.003	0.001	-0.003	-0.004	0.000	-0.001	-0.006	-0.001	0.002	-0.005	0.000	0.003
200	-0.002	0.001	-0.004	-0.003	0.000	0.000	-0.006	-0.001	0.000	-0.005	0.000	0.004

Average	0.001	0.000	-0.003	0.001	0.000	-0.002	0.000	0.000	-0.002	0.001	0.001	0.000
Minimum	-0.003	-0.001	-0.004	-0.004	-0.001	-0.004	-0.006	-0.001	-0.004	-0.005	0.000	-0.003
Maximum	0.003	0.001	-0.002	0.004	0.001	0.000	0.004	0.001	0.002	0.004	0.002	0.004

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.000	-0.002
Minimum	-0.006	-0.001	-0.004
Maximum	0.004	0.002	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Qh RMS 60 Hz Total

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Q-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.000	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.001	0.003	0.002	0.002
0.25	0.001	0.001	-0.001	0.002	0.001	-0.001	0.001	0.001	-0.001	0.004	0.003	0.003
0.5	0.002	0.000	-0.001	0.002	0.001	-0.001	0.002	0.000	-0.002	0.004	0.003	0.001
1	0.001	0.000	-0.001	0.001	0.000	-0.001	0.001	0.000	-0.001	0.003	0.003	0.002
2.5	0.000	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.001	0.003	0.003	0.002
3	0.000	0.000	0.000	0.001	0.000	0.000	0.000	0.000	0.000	0.003	0.003	0.003
5	0.000	-0.001	-0.002	0.000	-0.001	-0.002	-0.001	-0.001	-0.002	0.002	0.002	0.001
10	0.000	0.000	-0.002	0.001	0.000	-0.002	0.000	0.000	-0.002	0.003	0.002	0.001
15	0.002	0.001	-0.001	0.002	0.001	-0.001	0.001	0.000	-0.001	0.004	0.003	0.002
20	0.000	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.001	0.002	0.002	0.002
30	0.001	0.001	0.000	0.002	0.001	0.000	0.001	0.001	0.000	0.004	0.003	0.003
40	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001	-0.002	-0.001	-0.001	0.001	0.002	0.003
50	0.000	0.000	-0.001	-0.001	0.000	-0.001	-0.001	0.000	0.000	0.001	0.002	0.002
60	0.000	0.001	-0.001	0.000	0.001	-0.001	-0.001	0.000	0.000	0.002	0.003	0.003
100	0.001	0.001	-0.001	0.000	0.001	0.000	-0.001	0.000	0.000	0.001	0.003	0.004
120	0.001	0.002	-0.001	0.000	0.001	0.000	0.000	0.001	0.001	0.001	0.003	0.003
180	-0.002	0.001	-0.002	-0.002	0.000	0.000	-0.004	0.000	0.002	-0.001	0.003	0.004
200	0.000	0.001	-0.002	-0.001	0.001	0.001	-0.003	0.000	0.000	-0.001	0.003	0.005

Average	0.000	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.001	0.002	0.003	0.003
Minimum	-0.002	-0.001	-0.002	-0.002	-0.001	-0.002	-0.004	-0.001	-0.002	-0.001	0.002	0.001
Maximum	0.002	0.002	0.000	0.002	0.001	0.001	0.002	0.001	0.002	0.004	0.003	0.005

<u>Overall</u>	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.001	0.000
Minimum	-0.004	-0.001	-0.002
Maximum	0.004	0.003	0.005

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watt-hour 60 Hz Pulse Output

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.003	-0.002	0.001	-0.004	-0.003	0.001	-0.007	-0.004	0.001	-0.006	-0.003	0.004
0.02	-0.002	-0.001	0.000	-0.003	-0.002	0.000	-0.004	-0.002	0.000	-0.003	-0.001	0.002
0.05	-0.001	0.001	0.002	-0.002	0.000	0.001	-0.002	-0.001	0.001	-0.002	0.001	0.003

Phase B:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.005	-0.003	0.001	0.000	0.003	0.000	-0.002	0.001	0.000	0.001	0.003	0.004
0.02	-0.001	0.000	0.000	-0.001	0.001	0.000	0.000	0.001	0.000	0.005	0.006	0.006
0.05	0.002	0.001	0.000	0.002	0.002	0.000	0.002	0.002	0.000	0.008	0.008	0.006

Phase C:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.001	-0.002	-0.004	0.001	-0.002	-0.004	0.000	-0.002	-0.002	0.000	-0.002	0.000
0.02	0.001	-0.001	-0.004	0.002	-0.001	-0.004	0.001	-0.001	-0.003	0.003	0.000	-0.003
0.05	0.002	0.000	-0.003	0.004	0.000	-0.003	0.003	0.000	-0.003	0.003	0.001	-0.001

Total:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.002	-0.002	-0.001	-0.001	-0.001	-0.001	-0.003	-0.002	0.000	-0.002	0.000	0.003
0.02	0.000	-0.001	-0.002	0.000	0.000	-0.001	-0.001	-0.001	-0.001	0.002	0.002	0.002
0.05	0.001	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.003	0.003	0.003

Average	-0.001	-0.001	-0.001	0.000	0.000	-0.001	-0.001	-0.001	-0.001	0.001	0.002	0.002
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Minimum	-0.005	-0.003	-0.004	-0.004	-0.003	-0.004	-0.007	-0.004	-0.003	-0.006	-0.003	-0.003
Maximum	0.002	0.001	0.002	0.004	0.003	0.001	0.003	0.002	0.001	0.008	0.008	0.006

Overall	Unity PF	0.5 Lag	0.5 Lead
Average	0.000	0.000	0.000
Minimum	-0.007	-0.004	-0.004
Maximum	0.008	0.008	0.006

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	Watt-hour	60 Hz	Phase A	Pulse Output
Date.....	16-Oct-26	Uncertainty at Unity.....	0.001	
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.002	

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.000	0.000	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.001	0.002	0.001
0.25	0.001	0.001	0.002	0.002	0.002	0.001	0.000	0.001	0.001	0.002	0.002	0.002
0.5	0.002	0.001	0.002	0.001	0.001	0.002	0.001	0.000	0.001	0.003	0.002	0.001
1	0.000	-0.001	0.001	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.001	0.000	0.001
2.5	0.000	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	0.000	0.000
3	0.001	0.000	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.000	0.001	0.001	0.001
5	0.000	-0.001	0.000	-0.001	-0.001	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
10	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.001	0.001	0.001	0.000	0.001
15	0.001	0.000	0.003	0.002	0.000	0.002	0.000	-0.001	0.001	0.001	0.001	0.002
20	0.001	0.000	0.002	0.000	0.000	0.001	0.000	-0.001	0.000	0.001	0.001	0.001
30	0.002	0.001	0.003	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002
40	0.000	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	0.000	0.000	0.001	0.000
50	0.000	0.000	0.000	0.000	0.001	-0.001	0.000	-0.001	0.000	0.000	0.001	0.000
60	0.001	0.001	0.002	0.001	0.000	0.001	0.000	0.000	0.001	0.002	0.001	0.001
100	0.001	0.001	0.001	0.001	0.000	0.000	0.001	0.002	0.001	0.002	0.002	0.001
120	0.002	0.001	0.003	0.002	0.001	0.002	0.001	0.001	0.001	0.002	0.003	0.002
180	0.002	0.002	0.001	0.001	0.002	-0.001	0.000	0.003	-0.001	0.002	0.003	0.000
200	0.001	0.002	0.001	0.002	0.002	0.000	0.001	0.003	0.000	0.003	0.004	0.000
Average	0.001	0.000	0.002	0.001	0.000	0.001	0.000	0.000	0.000	0.001	0.001	0.001
Minimum	0.000	-0.001	0.000	-0.001	-0.002	-0.001	-0.001	-0.002	-0.001	0.000	-0.001	0.000
Maximum	0.002	0.002	0.003	0.002	0.002	0.002	0.001	0.003	0.002	0.003	0.004	0.002
<u>Overall</u>				Unity PF	0.5 Lag	0.5 Lead						
Average				0.001	0.000	0.001						
Minimum				-0.001	-0.002	-0.001						
Maximum				0.003	0.004	0.003						

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	Watt-hour	60 Hz	Phase B	Pulse Output
Date.....	16-Oct-26	Uncertainty at Unity.....	0.001	
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.002	

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.2	0.001	-0.003	0.004	0.001	-0.002	0.004	0.001	-0.002	0.003	0.006	0.004	0.008
0.25	0.003	-0.001	0.005	0.002	-0.001	0.004	0.001	-0.001	0.004	0.007	0.005	0.008
0.5	0.002	-0.002	0.005	0.002	-0.001	0.004	0.002	-0.001	0.004	0.007	0.005	0.009
1	0.001	-0.002	0.005	0.001	-0.002	0.004	0.001	-0.003	0.003	0.007	0.003	0.010
2.5	0.001	-0.002	0.004	0.001	-0.002	0.003	0.001	-0.002	0.003	0.007	0.004	0.008
3	0.002	-0.002	0.004	0.002	-0.003	0.004	0.002	-0.002	0.003	0.006	0.003	0.009
5	0.001	-0.002	0.004	0.001	-0.002	0.003	0.000	-0.002	0.001	0.006	0.003	0.007
10	0.001	-0.003	0.003	0.000	-0.003	0.002	0.000	-0.002	0.002	0.006	0.003	0.007
15	0.002	-0.002	0.003	0.002	-0.002	0.004	0.001	-0.002	0.003	0.007	0.004	0.008
20	0.000	-0.003	0.002	0.000	-0.003	0.002	0.000	-0.003	0.001	0.006	0.003	0.007
30	0.001	-0.002	0.004	0.001	-0.002	0.002	0.001	-0.001	0.002	0.007	0.004	0.008
40	0.001	-0.002	0.002	0.001	-0.002	0.002	0.000	-0.001	0.001	0.006	0.004	0.006
50	0.001	-0.002	0.002	0.001	-0.001	0.002	0.000	-0.001	0.001	0.007	0.005	0.007
60	0.002	-0.002	0.004	0.002	-0.002	0.004	0.002	0.000	0.002	0.007	0.005	0.008
100	0.002	0.000	0.004	0.002	-0.001	0.003	0.002	0.000	0.003	0.008	0.006	0.008
120	0.002	-0.001	0.003	0.003	-0.001	0.003	0.002	-0.001	0.003	0.007	0.005	0.008
180	0.000	0.000	0.001	0.001	0.000	-0.001	0.001	0.000	-0.001	0.007	0.007	0.005
200	0.000	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.007	0.006	0.004
Average	0.001	-0.002	0.003	0.001	-0.002	0.003	0.001	-0.001	0.002	0.007	0.004	0.007
Minimum	0.000	-0.003	0.000	0.000	-0.003	-0.001	0.000	-0.003	-0.001	0.006	0.003	0.004
Maximum	0.003	0.000	0.005	0.003	0.000	0.004	0.002	0.001	0.004	0.008	0.007	0.010
<u>Overall</u>				Unity PF	0.5 Lag	0.5 Lead						
Average				0.003	0.000	0.004						
Minimum				0.000	-0.003	-0.001						
Maximum				0.008	0.007	0.010						

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	Watt-hour	60 Hz	Phase C	Pulse Output
Date.....	16-Oct-26	Uncertainty at Unity.....	0.001	
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.002	

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 Unity PF	120 0.5 Lag	120 0.5 Lead	240 Unity PF	240 0.5 Lag	240 0.5 Lead	480 Unity PF	480 0.5 Lag	480 0.5 Lead	600 Unity PF	600 0.5 Lag	600 0.5 Lead
Amps												
0.2	0.000	-0.001	0.001	0.000	-0.003	0.001	0.001	-0.003	0.002	0.002	-0.001	0.003
0.25	0.002	-0.001	0.003	0.001	-0.001	0.002	0.001	-0.001	0.002	0.002	-0.001	0.003
0.5	0.002	0.000	0.004	0.002	-0.001	0.002	0.002	-0.001	0.004	0.003	0.000	0.004
1	0.002	-0.001	0.003	0.001	-0.002	0.002	0.001	-0.002	0.002	0.002	-0.001	0.004
2.5	0.001	-0.001	0.001	0.001	-0.002	0.001	0.001	-0.002	0.001	0.002	0.000	0.002
3	0.001	-0.001	0.002	0.002	-0.001	0.002	0.001	-0.001	0.002	0.003	-0.001	0.003
5	0.001	-0.003	0.001	0.001	-0.003	0.002	0.000	-0.003	0.002	0.001	-0.002	0.004
10	0.000	-0.003	0.002	0.000	-0.003	0.001	0.000	-0.003	0.002	0.001	-0.003	0.003
15	0.001	-0.001	0.003	0.001	-0.002	0.003	0.001	-0.001	0.004	0.003	-0.002	0.004
20	0.001	-0.002	0.001	0.000	-0.002	0.001	0.000	-0.003	0.001	0.002	-0.001	0.002
30	0.002	-0.001	0.002	0.001	-0.001	0.003	0.001	-0.001	0.002	0.002	0.000	0.004
40	0.000	0.000	0.000	0.001	-0.001	-0.002	0.000	0.000	-0.001	0.001	0.000	-0.001
50	0.000	0.000	-0.001	0.001	0.000	-0.001	0.001	0.000	0.000	0.002	0.001	0.000
60	0.001	0.000	0.001	0.002	0.000	0.001	0.001	-0.001	0.001	0.003	0.002	0.002
100	0.001	0.002	-0.001	0.000	0.001	-0.003	0.000	0.002	-0.002	0.002	0.002	-0.002
120	0.002	0.002	-0.001	0.001	0.000	-0.001	0.001	0.002	0.000	0.002	0.002	0.001
180	0.000	0.004	-0.006	0.000	0.004	-0.006	-0.001	0.004	-0.007	0.001	0.007	-0.004
200	0.000	0.005	-0.006	0.000	0.004	-0.007	0.000	0.005	-0.005	0.001	0.005	-0.005
Average	0.001	0.000	0.000	0.001	-0.001	0.000	0.001	-0.001	0.000	0.002	0.001	0.001
Minimum	0.000	-0.003	-0.006	0.000	-0.003	-0.007	-0.001	-0.003	-0.007	0.001	-0.003	-0.005
Maximum	0.002	0.005	0.004	0.002	0.004	0.003	0.002	0.005	0.004	0.003	0.007	0.004
<u>Overall</u>				Unity PF	0.5 Lag	0.5 Lead						
Average				0.001	0.000	0.001						
Minimum				-0.001	-0.003	-0.007						
Maximum				0.003	0.007	0.004						

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Watt-hour 60 Hz Pulse Output

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 watt-hour calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.002	0.005	-0.005	0.001	0.001	-0.003	0.000	0.003	-0.006	0.002	0.005	-0.002
0.02	0.001	0.005	-0.003	0.000	0.004	-0.004	-0.002	0.003	-0.005	0.001	0.005	-0.002
0.05	0.003	0.005	0.000	0.002	0.005	0.000	0.002	0.005	-0.001	0.003	0.006	0.001

Phase B:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.001	0.001	-0.007	0.002	0.006	-0.004	0.001	0.006	0.001	0.007	0.009	0.008
0.02	0.000	0.004	-0.004	0.001	0.004	-0.003	0.001	0.005	-0.001	0.007	0.009	0.004
0.05	0.003	0.004	0.001	0.004	0.004	0.002	0.004	0.004	0.004	0.009	0.010	0.009

Phase C:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.000	-0.001	0.002	0.001	-0.001	0.004	0.000	-0.002	0.006	0.002	0.000	0.003
0.02	-0.001	-0.002	0.002	0.001	-0.001	0.004	0.000	-0.002	0.003	0.001	0.001	0.004
0.05	0.001	0.000	0.005	0.003	-0.001	0.007	0.002	0.000	0.006	0.003	0.001	0.006

Average	0.001	0.002	-0.001	0.002	0.002	0.000	0.001	0.002	0.001	0.004	0.005	0.003
Minimum	-0.001	-0.002	-0.007	0.000	-0.001	-0.004	-0.002	-0.002	-0.006	0.001	0.000	-0.002
Maximum	0.003	0.005	0.005	0.004	0.006	0.007	0.004	0.006	0.006	0.009	0.010	0.009

Overall	Unity PF	0.5 Lag	0.5 Lead
Average	0.002	0.003	0.001
Minimum	-0.002	-0.002	-0.007
Maximum	0.009	0.010	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Phase A Pulse Output

Date..... 16-Oct-26 Uncertainty 0.003

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	0.001	0.003	0.000	0.000	0.000	-0.001	0.001	0.000
0.25	0.002	0.004	0.001	0.001	0.000	0.000	0.002	0.001
0.5	0.002	0.005	0.002	0.002	0.001	0.001	0.003	0.001
1	0.000	0.002	-0.001	0.000	-0.002	-0.001	0.000	-0.001
2.5	0.000	0.001	-0.001	-0.001	-0.002	-0.002	-0.001	-0.001
3	0.000	0.002	-0.001	0.000	-0.001	-0.002	0.000	-0.001
5	0.000	0.001	-0.002	-0.001	-0.002	-0.002	-0.001	-0.001
10	0.000	0.002	-0.001	0.001	-0.001	-0.001	0.000	0.000
15	0.001	0.003	0.001	0.002	-0.001	0.001	0.001	0.001
20	0.000	0.002	-0.001	0.000	-0.001	-0.001	0.000	0.000
30	0.002	0.003	0.001	0.002	0.000	0.001	0.001	0.002
40	-0.001	0.001	-0.001	-0.001	-0.002	-0.002	0.000	-0.001
50	0.001	0.001	0.000	0.001	-0.001	-0.002	0.000	-0.001
60	0.001	0.002	0.000	0.001	-0.002	0.000	0.001	0.000
100	0.001	0.003	0.000	0.000	-0.001	-0.002	0.000	-0.001
120	0.002	0.003	0.001	0.001	0.000	0.000	0.001	0.000
180	0.002	0.001	0.000	-0.001	-0.001	-0.001	0.000	-0.001
200	0.002	0.003	0.001	-0.001	0.000	-0.002	0.001	0.000

Average	0.001	0.002	0.000	0.000	-0.001	-0.001	0.000	0.000
Minimum	-0.001	0.001	-0.002	-0.001	-0.002	-0.002	-0.001	-0.001
Maximum	0.002	0.005	0.002	0.002	0.001	0.001	0.003	0.002

Overall	90°Lag	30°Lag
Average	0.000	0.000
Minimum	-0.002	-0.002
Maximum	0.003	0.005

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Phase B Pulse Output

Date..... 16-Oct-26 Uncertainty 0.002

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.002	0.001	0.000	0.001	-0.001	0.002	0.005	0.007
0.25	-0.001	0.002	0.000	0.002	0.000	0.002	0.005	0.007
0.5	0.000	0.003	0.001	0.004	0.000	0.004	0.006	0.009
1	-0.001	0.002	-0.001	0.002	-0.002	0.002	0.004	0.007
2.5	-0.002	0.001	0.000	0.001	-0.001	0.001	0.004	0.006
3	-0.001	0.001	-0.001	0.001	-0.002	0.001	0.004	0.006
5	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.005	0.006
10	-0.002	0.000	-0.002	0.000	-0.002	-0.001	0.004	0.005
15	0.000	0.001	-0.001	0.002	-0.001	0.001	0.005	0.007
20	-0.002	0.000	-0.003	-0.001	-0.003	-0.002	0.004	0.005
30	-0.001	0.002	0.000	0.000	-0.001	0.000	0.005	0.007
40	-0.001	0.000	-0.001	0.001	-0.002	-0.001	0.004	0.005
50	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.004	0.005
60	-0.001	0.002	-0.001	0.001	-0.001	0.001	0.005	0.006
100	-0.001	0.002	-0.001	0.000	-0.001	0.000	0.004	0.006
120	-0.001	0.002	-0.001	0.001	-0.001	0.001	0.005	0.005
180	-0.001	-0.001	-0.002	-0.002	-0.003	-0.003	0.003	0.003
200	-0.001	0.000	-0.002	-0.003	-0.002	-0.002	0.004	0.005

Average	-0.001	0.001	-0.001	0.001	-0.001	0.000	0.005	0.006
Minimum	-0.002	-0.001	-0.003	-0.003	-0.003	-0.003	0.003	0.003
Maximum	0.000	0.003	0.001	0.004	0.000	0.004	0.006	0.009

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	0.002
Minimum	-0.003	-0.003
Maximum	0.006	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR 60 Hz Phase C Pulse Output

Date..... 16-Oct-26 Uncertainty 0.002

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VARh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.2	-0.001	0.003	-0.002	0.001	-0.002	0.000	0.000	0.002
0.25	0.000	0.004	0.002	0.002	0.000	0.002	0.003	0.002
0.5	0.000	0.004	0.001	0.002	0.000	0.002	0.002	0.003
1	-0.001	0.003	-0.001	0.001	-0.001	0.001	0.000	0.003
2.5	-0.001	0.001	-0.001	0.000	-0.001	-0.001	0.000	0.000
3	0.000	0.001	-0.001	0.001	-0.002	0.001	0.000	0.000
5	0.000	0.002	-0.001	0.000	-0.001	0.001	0.000	0.002
10	-0.001	0.002	-0.001	0.001	-0.002	0.000	-0.001	0.001
15	0.000	0.003	0.000	0.002	-0.001	0.002	0.000	0.002
20	0.000	0.001	-0.001	0.000	-0.002	0.000	0.000	0.000
30	0.001	0.002	0.000	0.002	0.000	0.000	0.001	0.002
40	-0.001	-0.001	-0.002	-0.001	-0.002	-0.003	-0.001	-0.001
50	0.000	0.000	-0.001	0.000	-0.001	-0.002	-0.001	-0.001
60	0.000	0.001	-0.001	-0.001	-0.002	-0.001	0.000	0.001
100	-0.001	-0.001	-0.002	-0.003	-0.003	-0.004	-0.002	-0.003
120	-0.001	0.001	-0.002	-0.001	-0.002	-0.003	-0.001	-0.003
180	0.000	-0.004	-0.002	-0.006	-0.003	-0.007	-0.002	-0.008
200	0.001	-0.003	-0.002	-0.006	-0.003	-0.007	-0.001	-0.005

Average	0.000	0.001	-0.001	0.000	-0.002	-0.001	0.000	0.000
Minimum	-0.001	-0.004	-0.002	-0.006	-0.003	-0.007	-0.002	-0.008
Maximum	0.001	0.004	0.002	0.002	0.000	0.002	0.003	0.003

<u>Overall</u>	90°Lag	30°Lag
Average	-0.001	0.000
Minimum	-0.003	-0.008
Maximum	0.003	0.004

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... VAR-hour 60 Hz Pulse Output

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAR calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	0.002	-0.002	-0.002	-0.002	-0.003	-0.007	-0.002	-0.007
0.02	0.000	-0.001	-0.001	-0.005	-0.002	-0.006	-0.001	-0.005
0.05	0.002	0.001	0.001	-0.001	0.001	-0.002	0.002	0.000

Phase B:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.003	-0.009	-0.001	-0.008	0.000	-0.007	0.005	0.003
0.02	-0.002	-0.006	-0.001	-0.004	-0.001	-0.001	0.006	0.003
0.05	0.001	-0.002	0.002	0.001	0.002	0.003	0.009	0.009

Phase C:

	120 90°Lag	120 30°Lag	240 90°Lag	240 30°Lag	480 90°Lag	480 30°Lag	600 90°Lag	600 30°Lag
Amps								
0.005	-0.001	0.004	0.000	0.001	-0.001	0.001	0.000	-0.002
0.02	-0.002	0.002	-0.001	0.003	-0.001	0.001	0.000	0.001
0.05	0.000	0.006	0.002	0.005	0.001	0.004	0.002	0.004

Average	0.000	-0.001	0.000	-0.001	0.000	-0.002	0.002	0.000
Minimum	-0.003	-0.009	-0.002	-0.008	-0.003	-0.007	-0.002	-0.007
Maximum	0.002	0.006	0.002	0.005	0.002	0.004	0.009	0.009

<u>Overall</u>	90°Lag	30°Lag
Average	0.000	-0.001
Minimum	-0.003	-0.009
Maximum	0.009	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	VA-hour	60 Hz	Phase A	Pulse Output
Date.....	16-Oct-26	Uncertainty at Unity.....	0.002	
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.002	

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.001	0.000	0.002	0.001	0.000	0.002	0.001	-0.001	0.001	0.001	0.001	0.002
0.25	0.001	0.001	0.002	0.002	0.001	0.002	0.000	0.000	0.002	0.002	0.002	0.002
0.5	0.002	0.002	0.003	0.001	0.001	0.002	0.001	0.001	0.002	0.002	0.002	0.002
1	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.001	-0.001	0.001
2.5	0.000	-0.001	0.002	0.000	-0.001	0.001	-0.001	-0.002	0.001	0.000	-0.001	0.001
3	0.001	0.000	0.001	0.001	0.000	0.002	0.000	-0.002	0.001	0.001	0.000	0.001
5	0.000	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.001	0.000	-0.001	0.000
10	0.000	-0.001	0.001	0.000	0.000	0.001	-0.001	-0.002	0.001	0.001	0.000	0.001
15	0.001	0.000	0.002	0.001	0.001	0.002	0.000	-0.001	0.002	0.001	0.001	0.002
20	0.001	0.000	0.001	0.000	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.002
30	0.002	0.001	0.002	0.001	0.001	0.001	0.001	0.000	0.002	0.002	0.001	0.003
40	-0.001	-0.001	0.001	0.000	-0.001	0.000	-0.001	-0.002	0.000	0.000	0.000	0.001
50	0.001	0.000	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	0.000	0.001
60	0.001	0.001	0.003	0.001	0.000	0.002	0.000	-0.001	0.002	0.002	0.001	0.002
100	0.002	0.001	0.003	0.001	0.000	0.002	0.001	-0.001	0.002	0.002	0.000	0.003
120	0.002	0.001	0.003	0.002	0.000	0.002	0.001	0.000	0.003	0.002	0.001	0.003
180	0.001	0.001	0.002	0.001	0.000	0.002	0.001	0.000	0.002	0.002	0.000	0.002
200	0.001	0.002	0.002	0.002	0.001	0.002	0.001	-0.001	0.002	0.002	0.001	0.003
Average	0.001	0.000	0.002	0.001	0.000	0.001	0.000	-0.001	0.001	0.001	0.000	0.002
Minimum	-0.001	-0.001	0.001	-0.001	-0.002	0.000	-0.001	-0.002	0.000	0.000	-0.001	0.000
Maximum	0.002	0.002	0.003	0.002	0.001	0.002	0.001	0.001	0.003	0.002	0.002	0.003
<u>Overall</u>				Unity PF	0.5 Lag	0.5 Lead						
Average				0.001	0.000	0.002						
Minimum				-0.001	-0.002	0.000						
Maximum				0.002	0.002	0.003						

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	VA-hour	60 Hz	Phase B	Pulse Output
Date.....	16-Oct-26	Uncertainty at Unity.....	0.001	
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.002	

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.000	-0.001	0.002	0.000	0.000	0.001	0.000	0.000	0.001	0.006	0.006	0.006
0.25	0.002	0.001	0.002	0.002	0.001	0.002	0.001	0.000	0.002	0.007	0.006	0.007
0.5	0.001	0.000	0.002	0.002	0.002	0.002	0.002	0.001	0.002	0.007	0.007	0.007
1	0.001	-0.001	0.003	0.001	-0.001	0.002	0.002	0.000	0.002	0.007	0.005	0.008
2.5	0.001	0.000	0.001	0.001	0.000	0.001	0.001	-0.001	0.001	0.007	0.005	0.007
3	0.001	-0.001	0.003	0.001	-0.001	0.002	0.001	0.000	0.002	0.006	0.006	0.007
5	0.001	-0.001	0.001	0.001	-0.001	0.001	0.000	-0.001	0.001	0.006	0.005	0.006
10	0.000	-0.002	0.001	0.000	-0.001	0.001	0.000	-0.002	0.000	0.006	0.004	0.006
15	0.001	0.000	0.002	0.002	-0.001	0.001	0.001	0.000	0.001	0.007	0.006	0.006
20	0.000	-0.002	0.000	0.000	-0.001	0.001	0.000	-0.002	0.001	0.005	0.004	0.005
30	0.001	0.000	0.001	0.001	0.000	0.000	0.001	-0.001	0.001	0.007	0.005	0.007
40	0.000	-0.001	0.000	0.001	-0.001	0.001	0.000	-0.001	0.001	0.006	0.005	0.006
50	0.000	-0.001	0.001	0.001	-0.001	0.001	0.000	0.000	0.001	0.006	0.006	0.006
60	0.001	-0.001	0.002	0.002	0.000	0.002	0.002	-0.001	0.003	0.007	0.005	0.007
100	0.002	0.000	0.003	0.002	0.000	0.003	0.002	0.000	0.003	0.008	0.006	0.008
120	0.002	-0.001	0.002	0.002	-0.001	0.004	0.002	-0.001	0.003	0.007	0.004	0.008
180	0.000	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.002	0.007	0.004	0.007
200	0.000	-0.001	0.001	0.001	-0.001	0.002	0.001	-0.002	0.002	0.007	0.004	0.007
Average	0.001	-0.001	0.001	0.001	-0.001	0.002	0.001	-0.001	0.002	0.007	0.005	0.007
Minimum	0.000	-0.002	0.000	0.000	-0.001	0.000	0.000	-0.002	0.000	0.005	0.004	0.005
Maximum	0.002	0.001	0.003	0.002	0.002	0.004	0.002	0.001	0.003	0.008	0.007	0.008
<u>Overall</u>				Unity PF	0.5 Lag	0.5 Lead						
Average				0.002	0.001	0.003						
Minimum				0.000	-0.002	0.000						
Maximum				0.008	0.007	0.008						

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....	VA-hour	60 Hz	Phase C	Pulse Output
Date.....	16-Oct-26	Uncertainty at Unity.....	0.001	
Serial Number.....	XXXXXX	Uncertainty at 60° Phase Angle....	0.002	

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. Results are accredited to ISO/IEC 17025:2017.

Voltage & Phase Angle

Amps	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
0.2	0.000	-0.001	0.001	0.001	-0.002	0.000	0.001	-0.002	0.000	0.002	0.000	0.001
0.25	0.001	0.000	0.001	0.001	0.000	0.001	0.001	0.000	0.002	0.002	0.001	0.003
0.5	0.002	0.001	0.003	0.002	0.001	0.001	0.002	0.000	0.002	0.003	0.002	0.003
1	0.001	-0.001	0.002	0.001	-0.001	0.002	0.001	-0.001	0.001	0.002	0.000	0.003
2.5	0.000	-0.001	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.002	0.000	0.002
3	0.002	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.002	0.002	0.000	0.002
5	0.001	0.000	0.000	0.000	-0.001	0.000	0.000	-0.001	0.001	0.001	0.000	0.001
10	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.002	0.000	0.001	-0.001	0.001
15	0.002	0.000	0.002	0.001	0.000	0.002	0.001	0.000	0.001	0.003	0.000	0.003
20	0.000	-0.001	0.001	0.000	-0.001	0.000	0.000	-0.001	0.000	0.002	0.000	0.001
30	0.002	0.001	0.002	0.001	0.000	0.001	0.001	0.000	0.002	0.002	0.001	0.003
40	0.000	-0.001	0.000	0.000	-0.001	0.000	0.000	-0.002	0.000	0.001	-0.001	0.001
50	0.000	0.000	0.000	0.001	-0.001	0.000	0.001	-0.001	0.000	0.002	-0.001	0.001
60	0.001	0.000	0.002	0.002	0.000	0.002	0.001	-0.001	0.002	0.002	0.000	0.003
100	0.001	-0.001	0.000	0.000	-0.002	0.001	0.000	-0.002	0.001	0.002	-0.001	0.003
120	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.002	0.003	0.000	0.003
180	0.000	0.000	-0.001	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.001	-0.001	0.001
200	0.000	0.000	-0.002	0.000	-0.001	0.001	0.000	-0.002	0.001	0.001	-0.001	0.001
Average	0.001	0.000	0.001	0.001	-0.001	0.001	0.001	-0.001	0.001	0.002	0.000	0.002
Minimum	0.000	-0.001	-0.002	0.000	-0.002	0.000	-0.001	-0.002	0.000	0.001	-0.001	0.001
Maximum	0.002	0.001	0.003	0.002	0.001	0.002	0.002	0.000	0.002	0.003	0.002	0.003
<u>Overall</u>				Unity PF	0.5 Lag	0.5 Lead						
Average				0.001	-0.001	0.001						
Minimum				-0.001	-0.002	-0.002						
Maximum				0.003	0.002	0.003						

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function.....VA-hour RMS 60 Hz Pulse Output

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 VAh calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 5 seconds and stabilization time in between points is 5 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Phase Angle

Phase A:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	0.003	-0.001	0.001	0.001	0.000	0.002	-0.001	-0.003	0.000	0.002	-0.001	0.004
0.02	0.000	0.000	0.000	0.000	-0.002	-0.001	-0.002	-0.002	-0.001	0.001	-0.001	0.001
0.05	0.003	0.003	0.001	0.002	0.002	0.001	0.001	0.000	0.001	0.003	0.003	0.003

Phase B:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.001	-0.001	0.000	0.001	0.002	-0.001	-0.001	0.001	0.003	0.007	0.006	0.007
0.02	-0.001	-0.001	-0.001	0.001	0.000	-0.001	0.000	0.000	0.001	0.007	0.007	0.006
0.05	0.001	0.001	0.001	0.004	0.002	0.002	0.003	0.003	0.002	0.009	0.010	0.009

Phase C:

	120	120	120	240	240	240	480	480	480	600	600	600
	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead	Unity PF	0.5 Lag	0.5 Lead
Amps												
0.005	-0.001	0.000	0.001	0.001	0.000	0.002	0.001	-0.001	0.002	0.002	-0.001	0.004
0.02	-0.001	-0.001	-0.001	0.001	-0.001	0.000	0.000	-0.001	0.000	0.001	0.000	0.002
0.05	0.001	0.000	0.000	0.002	0.001	0.002	0.002	0.001	0.002	0.003	0.002	0.003

Average	0.000	0.000	0.000	0.001	0.000	0.001	0.000	0.000	0.001	0.004	0.003	0.004
Minimum	-0.001	-0.001	-0.001	0.000	-0.002	-0.001	-0.002	-0.003	-0.001	0.001	-0.001	0.001
Maximum	0.003	0.003	0.001	0.004	0.002	0.002	0.003	0.003	0.003	0.009	0.010	0.009

Overall	Unity PF	0.5 Lag	0.5 Lead
Average	0.001	0.001	0.002
Minimum	-0.002	-0.003	-0.001
Maximum	0.009	0.010	0.009

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Volts RMS 60 Hz Phase A

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Volt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage

	V RMS	Vh RMS	V2h RMS
60	0.001	0.001	0.003
80	0.000	0.000	0.001
100	0.000	0.000	0.001
120	0.001	0.001	0.001
140	0.001	0.001	0.001
160	0.000	0.000	-0.001
180	0.000	0.000	-0.001
200	-0.001	-0.001	-0.001
220	0.000	0.000	0.000
240	0.000	0.000	0.000
260	0.000	0.000	0.000
280	0.000	0.000	0.000
300	0.001	0.001	0.001
320	-0.001	-0.001	-0.002
340	-0.001	-0.001	-0.002
360	-0.001	-0.001	-0.002
380	-0.001	-0.001	-0.002
400	-0.001	-0.001	-0.002
420	-0.001	-0.001	-0.002
440	-0.001	-0.001	-0.001
460	0.000	0.000	-0.001
480	0.000	0.000	-0.001
500	0.000	0.000	0.000
520	0.000	0.000	0.000
540	0.000	0.000	0.000
560	0.001	0.001	0.001
580	0.001	0.001	0.002
600	0.001	0.001	0.002
Average	0.000	0.000	0.000
Minimum	-0.001	-0.001	-0.002
Maximum	0.001	0.001	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Volts RMS 60 Hz Phase B

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Volt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage

	V RMS	Vh RMS	V2h RMS
60	0.000	0.000	0.000
80	0.001	0.001	0.002
100	0.000	0.000	0.000
120	0.000	0.000	-0.001
140	0.001	0.001	0.002
160	0.001	0.001	0.001
180	0.000	0.000	0.000
200	0.001	0.001	0.001
220	0.000	0.000	0.001
240	0.000	0.000	0.001
260	0.001	0.001	0.002
280	0.001	0.001	0.002
300	0.001	0.001	0.002
320	-0.001	-0.001	-0.002
340	-0.001	-0.001	-0.003
360	-0.002	-0.002	-0.003
380	-0.002	-0.002	-0.003
400	-0.001	-0.001	-0.002
420	-0.001	-0.001	-0.002
440	-0.001	-0.001	-0.001
460	0.000	0.000	0.000
480	0.000	0.000	0.001
500	0.001	0.001	0.002
520	0.002	0.002	0.003
540	0.002	0.002	0.005
560	0.003	0.003	0.007
580	0.005	0.005	0.010
600	0.006	0.006	0.012
Average	0.001	0.001	0.001
Minimum	-0.002	-0.002	-0.003
Maximum	0.006	0.006	0.012

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Volts RMS 60 Hz Phase C

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Volt calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage	V RMS	Vh RMS	V2h RMS
60	-0.003	-0.003	-0.005
80	0.000	0.000	0.000
100	-0.001	-0.001	-0.001
120	-0.001	-0.001	-0.002
140	0.001	0.001	0.001
160	0.000	0.000	-0.001
180	-0.001	-0.001	-0.002
200	0.000	0.000	0.000
220	0.000	0.000	-0.001
240	0.000	0.000	-0.001
260	0.000	0.000	0.001
280	0.000	0.000	0.001
300	0.000	0.000	0.001
320	-0.001	-0.001	-0.001
340	-0.001	-0.001	-0.002
360	-0.001	-0.001	-0.002
380	-0.001	-0.001	-0.002
400	-0.001	-0.001	-0.001
420	-0.001	-0.001	-0.002
440	-0.001	-0.001	-0.001
460	-0.001	-0.001	-0.001
480	0.000	0.000	-0.001
500	0.000	0.000	-0.001
520	0.000	0.000	0.000
540	0.000	0.000	0.000
560	0.000	0.000	0.000
580	0.000	0.000	0.001
600	0.001	0.001	0.001
Average	0.000	0.000	-0.001
Minimum	-0.003	-0.003	-0.005
Maximum	0.001	0.001	0.001

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Amps RMS 60 Hz Phase A

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Amp calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Amps

	A RMS	Ah RMS	A2h RMS
0.2	-0.001	-0.001	-0.001
0.25	0.000	0.000	0.001
0.5	0.000	0.000	0.000
1	-0.001	-0.001	-0.001
2.5	-0.001	-0.001	-0.002
3	0.000	0.000	-0.001
5	-0.002	-0.002	-0.004
10	-0.001	-0.001	-0.001
15	0.000	0.000	0.001
20	0.000	0.000	-0.001
30	0.001	0.001	0.001
40	-0.001	-0.001	-0.003
50	-0.001	-0.001	-0.002
60	-0.001	-0.001	-0.001
100	0.000	0.000	0.000
120	0.000	0.000	0.001
180	-0.001	0.000	-0.001
200	0.000	0.000	0.001

Average	-0.001	0.000	-0.001
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Minimum	-0.002	-0.002	-0.004
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Maximum	0.001	0.001	0.001
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Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Amps RMS 60 Hz Phase B

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Amp calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Amps

	A RMS	Ah RMS	A2h RMS
0.2	0.000	0.000	0.000
0.25	0.000	0.000	0.001
0.5	0.000	0.000	0.000
1	0.001	0.001	0.002
2.5	0.000	0.000	0.000
3	0.001	0.001	0.002
5	0.000	0.000	0.000
10	0.000	0.000	-0.001
15	0.001	0.001	0.001
20	-0.001	-0.001	-0.001
30	0.000	0.000	0.000
40	-0.001	-0.001	-0.001
50	0.000	0.000	0.000
60	0.000	0.000	0.001
100	0.001	0.001	0.002
120	0.001	0.001	0.001
180	-0.001	-0.001	-0.002
200	-0.001	-0.001	-0.002

Average	0.000	0.000	0.000
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Minimum	-0.001	-0.001	-0.002
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Maximum	0.001	0.001	0.002
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Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Amps RMS 60 Hz Phase C

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Amp calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Amps

	A RMS	Ah RMS	A2h RMS
0.2	0.000	0.000	-0.001
0.25	0.001	0.001	0.002
0.5	0.001	0.001	0.003
1	0.000	0.000	0.000
2.5	0.000	0.000	0.000
3	0.000	0.000	0.000
5	-0.001	-0.001	-0.002
10	0.000	0.000	-0.001
15	0.001	0.001	0.002
20	0.000	0.000	-0.001
30	0.001	0.001	0.003
40	-0.001	-0.001	-0.002
50	0.000	0.000	-0.001
60	0.000	0.000	0.001
100	-0.001	-0.001	-0.002
120	0.000	0.000	-0.001
180	-0.002	-0.002	-0.003
200	-0.002	-0.002	-0.003

Average	0.000	0.000	0.000
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Minimum	-0.002	-0.002	-0.003
Maximum	0.001	0.001	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Amps RMS 60 Hz

Date..... 16-Oct-26

Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 Amp calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Phase A:

Amps

	A RMS	Ah RMS	A2h RMS
0.005	-0.002	-0.002	-0.004
0.02	-0.002	-0.002	-0.003
0.050	0.000	0.000	0.000

Phase B:

Amps

	A RMS	Ah RMS	A2h RMS
0.005	-0.002	-0.002	-0.004
0.02	0.000	0.000	-0.001
0.05	0.001	0.001	0.003

Phase C:

Amps

	A RMS	Ah RMS	A2h RMS
0.005	-0.001	-0.001	-0.002
0.02	0.000	0.000	0.000
0.05	0.001	0.001	0.001

Average	-0.001	-0.001	-0.001
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Minimum	-0.002	-0.002	-0.004
Maximum	0.001	0.001	0.003

Calibration Report

RX-30-PQ Xytronic Portable Standard

Mode..... Frequency Phase A
Date..... 16-Oct-26
Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 time base calibration is derived directly from a Keysight Technologies 53220A Universal Counter/Timer, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Frequency

45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
Average	0.000
Minimum	0.000
Maximum	0.000

Calibration Report

RX-30-PQ Xytronic Portable Standard

Mode..... Frequency Phase B
Date..... 16-Oct-26
Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 time base calibration is derived directly from a Keysight Technologies 53220A Universal Counter/Timer, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Frequency

45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
Average	0.000
Minimum	0.000
Maximum	0.000

Calibration Report

RX-30-PQ Xytronic Portable Standard

Mode..... Frequency Phase C
Date..... 16-Oct-26
Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 time base calibration is derived directly from a Keysight Technologies 53220A Universal Counter/Timer, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). Test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the Instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Frequency

45	0.000
46	0.000
47	0.000
48	0.000
49	0.000
50	0.000
51	0.000
52	0.000
53	0.000
54	0.000
55	0.000
56	0.000
57	0.000
58	0.000
59	0.000
60	0.000
61	0.000
62	0.000
63	0.000
64	0.000
65	0.000
Average	0.000
Minimum	0.000
Maximum	0.000

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Phase 60 Hz Phase A
Date..... 16-Oct-26
Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 phase calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). The test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Current

	120	120	120	120	120	240	240	240	240	240	480	480	480	480	480
	1	5	15	30	50	1	5	15	30	50	1	5	15	30	50
Phase															
-180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Minimum	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Maximum	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Phase 60 Hz Phase B
Date..... 16-Oct-26
Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 phase calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). The test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Current

	120	120	120	120	120	240	240	240	240	240	480	480	480	480	480
	1	5	15	30	50	1	5	15	30	50	1	5	15	30	50
Phase															
-180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Minimum	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Maximum	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Calibration Report

RX-30-PQ Xytronic Portable Standard

Function..... Phase 60 Hz Phase C
Date..... 16-Oct-26
Serial Number..... XXXXXX

The following data was collected by a Radian Research RS-933 Automated Calibration System. The RS-933 phase calibration is derived directly from (3) Radian RD-22-RTS Dytronic Transfer Standards, traceable to the SI through the National Institute of Standards and Technology (NIST) and the National Research Council of Canada (NRC) and/or other National Metrology Institute (NMI). The test time is 2 seconds and the stabilization time in between points is 2 seconds. For lagging power factors the current lags the voltage. All results are listed as Percent Error. The RS-933 Automated Calibration System has at least an 8 times greater accuracy than the instrument under test. The results presented on this page are compliant with ANSI/NCSL Z540-1-1994. They are not within Radian's 17025 scope of accreditation.

Voltage & Current

	120 1	120 5	120 15	120 30	120 50	240 1	240 5	240 15	240 30	240 50	480 1	480 5	480 15	480 30	480 50
Phase															
-180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
-30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
30	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Average	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Minimum	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Maximum	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000