

## DEMONSTRATION EQUIPMENT AVAILABILITY

Radian Research, Inc. currently has the following refurbished sales demonstration unit available for sale:

### **RM-17-01 Portable Test System (\$2,517)**

Serial Number: 801483

*The Radian Research RM-17 Portable Watthour Test System offers simplicity for testing residential watthour meters. In a compact, lightweight package of 7 pounds, the RM-17 delivers accuracy and flexibility in a practical solution to watthour meter testing. The RM-17 combines simple operation, advanced data management, and exceptional accuracy to provide a cost effective approach to field testing.*

### **RD-23-372 Dytronic Reference Standard (\$8,568)**

Serial Number: 201554

*The Radian RD-23 Single-phase Reference Standard may be the most accurate measurement instrument ever designed for field use. The RD-23 has a guaranteed accuracy of 0.01% for all measurement functions across its entire operating range, with a typical accuracy that is within traceability uncertainties. The guaranteed accuracy specification includes the variables of stability, power factor, traceability uncertainty and test system errors.*

*The RD-23 utilizes Radian's new Dytronic measurement technology consisting of a Radian designed Integrating Analog to Digital Signal Converter. Unlike off-the-shelf A/D Converters used in other instruments, Radian's A/D Converter is specifically designed and optimized for power and energy measurement. This unique design makes the RD-23 absolutely unsurpassed in its ability to accurately measure "real world" waveforms. The RD-23's A/D Converter is combined with Radian's renowned electronically compensated voltage and current input transformers and a hermetically sealed reference set to provide the highest degree of accuracy, stability and versatility offered in a portable single-phase standard.*

### **RD-33-471 Dytronic Reference Standard (\$24,591)**

Serial Number: 300327

*The Radian RD-33 Three-phase Electricity Reference Standard achieves a level of accuracy and performance never before available in a portable standard. The RD-33 has a guaranteed accuracy of 0.01% for all measurement functions across its entire operating range, with a typical accuracy that is within traceability uncertainties. This guaranteed accuracy specification includes the variables of stability, power factor, and traceability uncertainty.*

*The RD-33 utilizes Radian's new Dytronic measurement technology consisting of a Radian designed Integrating Analog to Digital Signal Converter. Unlike off-the-shelf A/D Converters used in other instruments, Radian's A/D Converter is specifically designed and optimized for power and energy measurement. This unique design makes the RD-33 absolutely unsurpassed in its ability to accurately measure "real world" waveforms. The RD-33's A/D Converter is combined with Radian's renowned electronically compensated voltage and current input transformers and a hermetically sealed reference set to provide the highest degree of accuracy, stability and versatility offered in a portable three-phase standard.*

### **RB-10 Bantam Light Portable Test Solution (\$8,495)**

Serial Number: 400003

*Bantam is designed with portability and safety in mind. Packaged in high technology composite PVC/Acrylic alloy to help reduce weight yet maximize structural integrity. Should misconnection occur Bantams' quick wiring safety check determines and prevents operation if voltage is detected on the current inputs. Furthermore, the 600V rated ON/OFF switch isolates the load from the meter service voltage to prevent flashover from occurring while connection to the test meter takes place.*

*The Radian RB-10 Bantam Lite is very versatile yet simple to operate. All test functions, including series and element tests, are controlled from front panel switches without the need for re-wiring. FL and LL test currents are logically placed on the current selection switch and the output current can be linearly adjusted from no load up to full range. Both unity (1.0) and 50% (0.5) lagging power factors can be tested. The hand held controller automates testing with the ability to automatically calculate, display, and store test results. The data can then be easily uploaded to a PC or printed on the RM-RPP portable printer.*

### **RD-BR1 Burden and Ratio Analysis Module (\$1,263)**

Serial Number: 118727

*The Radian RD-BR1 Burden & Ratio Analysis Module is an innovative advancement in current transformer (CT) testing. When used with Radian's RD-2x or RD-3x Dytronic Standards this accessory provides several benefits over other testing methods. The RD-BR1 allows testing without interruption to the customer's service and the design features single cycle burden insertion with simultaneous CT ratio and phase error. The module's unique design allows all ANSI values of 0.1, 0.5, 1.0, 2.0, 4.0 and 8.0 Ohms to be inserted with virtually no magnetizing effect on the CT. When testing with the RD-BR1 the user need not be concerned with overheating. An onboard temperature controlled fan keeps the module running cool and trouble free.*

### **RM-111 Automated Comparator (\$1,263)**

Serial Number: 120775

*The Radian Research RM-111 Automated Comparator is the definitive test accessory for use with Radian reference standards. The RM-111 eliminates manual calculation and*

*recordkeeping associated with two primary applications: field testing of watt-hour billing meters and laboratory testing of reference standards.*

**UTEK Model 453 Meter Test Kit with RM-10 Standard and Model 712 Comparator (\$4,995)**

453 Serial Number: 40187  
RM-10 Serial Number: 2681

*The Model 453 is an open link meter test kit that can source 50 Amps for the purpose of testing single or three phase electricity meter accuracy. It has convenient tap based output to allow the operator to easily set the output amplitude and a power factor switch for the set point of unity or 0.5 lag, which allows for testing all ANSI required test points.*

*The 712 automated comparator provides an efficient means of automatically testing the electricity meter and recording the results. The Radian RM-10 Standard will accurately measure the delivered energy and provided a testing accuracy of 0.05%.*

Discount pricing available, based on unit's age and functionality. To obtain additional information on purchasing these units, contact Radian Research at:

email: [radian@radianresearch.com](mailto:radian@radianresearch.com)

ph: 765-449-5500