

Computer Controlled Automated Meter Test System Model 5100

The Model 5100 Demand Test System is a multi-position testboard designed to verify the proper operation and registration of mechanical, thermal, and electronic demand registers. With the pulse initiator inputs, contact devices within the meter(s) under test may also be verified.

Designed for flexibility, the 5100 functions as either a time run or programmable standard revolutions test system. Meter socket bypassing allows the testboard to run with less than a full complement of meters. Meter form numbers must be identical for each run, but register multipliers (and Mp or C/R if optionally equipped) can be individually entered for each test

station. Testboard operation at end-of-test is also programmable, including maintaining voltage for solid-state demand registers.

The Model 5100 is a PC based system that provides an operator interface that is easy to learn and use, yet powerful and flexible. All setup information, test parameters, and test results are clearly displayed on a high-resolution color monitor. The operator's job is greatly simplified by the use of single key commands, programmable default tables, and on-line user help screens.



- **Smart Socket™**
- **WATT-Net™ Software**

Specifications:

- **Source:** 30A, 240V, 4 wire, 3Ø delta or 30A, 208V, 4 wire 3Ø Y (specify with order)
- **System accuracy:** +/-0.25%
- **Meter forms tested:** 1S-6S, 8S-17S, 19S, 21S, 25S, 26S, 29S, 35S, 36S, 45S, 46S, 56S, or 66S
- **Weight:** Twelve (12) stations — 1,400 lbs (approximately)
- **Dimensions:** 71.25" H x (19.5" per three test station bay + 1.5" W x 33" D cabinet model with writing ledge 30" above base
Twelve (12) stations 82.5" W
- **Housing:** All aluminum construction
- **Warranty:** Two (2) years, limited warranty (all parts and labor). Manufacturer's warranty on computer.

Optional Accessories:

- RD-20-202 Radian Research™ standard for KW, KVar, KVA-RMS, and Q energy measurement capability
- Single or multi stator A-base adapters - 2 per bay (top and bottom)
- Barcode reader and software

Features:

- **Number of test stations:**
Available in 6, 9, 12 and 15 station configurations
- **Test voltage:**
60-540V
- **Test current:**
>>1.0A-200A
>>1-20A for transformer rated meters
>>20-200A for self-contained meters
- **Power factor test angle:**
>>0-359° lagging
>>Selectable in 0.1° increments
- **Test time:** Selectable from 1-9999 seconds
- **Demand (KW) testing:**
>>Standard revolutions (1-99999 revolutions)
>>Time run (up to 99 HRS, 59 MIN, 59 SEC)
- **Contact device testing:**
Form "A" or "C" capability
- Potential clips closed for testing
- Minimal insertion force Smart Socket™
- The internal standard may be compared to an external standard for easy standard checks without removing the standard
- PC Minimum System: Dell™ standard business class Mini Tower PC • 17" flat screen monitor • Microsoft Windows®
- Windows® compatible Upscale™ software
- WATT-Net™ data acquisition system



For more information on Model 5100, contact us at 601.933.0900 or visit our website at www.watthour.com.

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