

Digital TRMS Power Meter Model 3910



The AEMC® True RMS Power Meter Model 3910 is designed for today's electrical environments. Operation is simple. There are no programming requirements or menus, just four push-buttons for direct access. The Model 3910 is auto-ranging and ensures the best range for measurements.

Troubleshooting and measuring power is done simply by connecting two voltage leads and clamping on the current probe. The Model 3910 is easier to operate than most DMMs and may even replace your multimeter for individual voltage or current measurements.

Small and compact in its gray protective holster, the Model 3910 provides seven essential power measurement values. Four measurements are displayed at a time on its extra large multidisplay LCD.

The Model 3910 performs current and voltage measurements in True RMS, and provides immediate readings of power factor (PF), active power (kW), reactive power (kVar), apparent power (kVA) and frequency (HZ). The Model 3910 displays Vrms, VDC, Arms, kW and PF on the first screen; pressing and holding the PAGE button gives access to kVar, KVA and HZ on a second screen.

The Peak function allows selection of a specific parameter (A, V or W) for peak measurement, and also displays the associated values at the particular peak (for example, the Model 3910 displays the actual V, kW, PF, kVar, kVA and HZ values when Apeak is selected).

The unique memory function permits not only storing the measurements at any time, but also comparing subsequent readings by displaying the difference between the stored values and the new readings. This is helpful in analyzing and measuring the impact of loads being turned on and off.

A selector switch on the front panel selects power measurements for single-phase or balanced three-phase, three-wire systems.

The TRMS Power Meter Model 3910 includes test leads, test probes and 500AAC current probe in a rugged carrying case.

Features

- Selectable single-phase and three-phase settings
- Direct display of multiple measurements for easy reading
- Measures Arms, Vrms, PF, kW, kVar, kVA and HZ
- Peak and memory functions for load analysis
- Simple, user-friendly operation
- Large format display
- Built to IEC 348 safety standards
- Compact and rugged instrument complete with 500A current probe and safety rubber housing
- Includes a hard carrying case

Applications

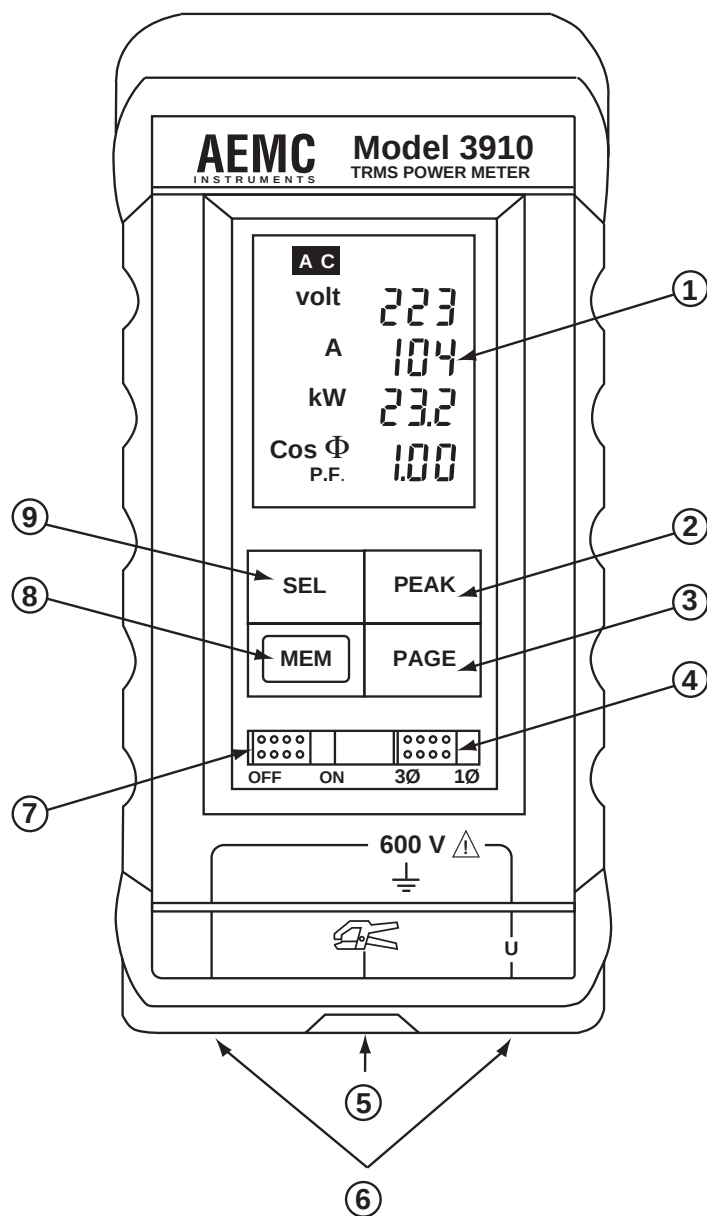
- Performs a wide array of power measurements
- Quality control applications to measure power on electronic and motor circuits
- Analysis of load demand
- Determine peak periods and line loads
- Conduct energy management and power factor surveys
- Power factor correction

Specifications

MODEL	3910	
MEASUREMENT	RANGE	ACCURACY
Current (Trms)	1 to 500Arms (1000A*)	With supplied probe: 25A: ±5% of Reading, Phase 4° 100A: ±2% of Reading, Phase 2° 500A: ±2% of Reading, Phase 1.5°
Voltage (Trms)	1 to 600Vrms	1 to 99.9V: 0.5% of Reading ± 0.6V 100 to 600V: 0.3% of Reading ± 2V
Frequency (Hz)	30 to 100Hz 101 to 999Hz	0.03% of Reading ± 0.1Hz 0.5% of Reading ± 1Hz
Power Factor	-0.00 (lag) to ±0.00 (lead)	Sum of the V and A accuracy plus the probe phase shift
Active Power	30W to 300kW (600kW*)	Sum of the V and A accuracy
Reactive Power	0 to 300kVar (600kVar*)	Sum of the V and A accuracy @ sin Φ = 1 plus the probe phase shift
Apparent Power	0 to 300kVA (600kVA*)	Sum of the V and A accuracy
GENERAL		
Display	1.57 x 1.97" (40 x 50mm) multidisplay LCD	
Power Source	Four 1.5 "AA" Alkaline batteries; Low battery indicator: "BAT" on display	
Battery Life	50 hours approximately, continuous use	
Dimensions	3.2 x 6.9 x 1.3" (80 x 175 x 32mm) With gray holster: 3.5 x 7.7 x 2.1 (90 x 195 x 54mm)	
Weight	With batteries: 15 oz (400g); with gray holster: 17.6 oz (500g)	
Current Probe	Accommodates two 500 MCM or one 750 MCM	
SAFETY		
Double Insulation ☐	Yes	

*With optional 1000A Clamp-On Current Probe

Construction



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|----------------|--------------------------------|------------------|
| 1. Display | 4. Single-, three-phase switch | 7. On/Off switch |
| 2. PEAK button | 5. Clamp input | 8. MEM button |
| 3. PAGE button | 6. Voltage input | 9. SEL button |

Model 3910 includes new high impact carrying case, 500A probe, one red and one black lead, one red and one black test probe, one red and one black grip probe and user manual



ORDERING INFORMATION

CATALOG NO.

TRMS Power Meter Model 3910 (Digital with 500A probe) Cat. #2111.27

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