

# Quick Fact Sheet

## Power Meters

### ML2430A CW Power Meter

10 MHz to 50 GHz

**Anritsu**  
Advancing beyond

#### Anritsu Power Meters and Power Sensors: Accurate, Fast, and Affordable

Anritsu offers the world's most comprehensive range of power meters. The ML2490A series has the performance required for narrow, fast rising-edge pulse power measurements (for example, radar). The ML2430A series of power meters are designed for CW applications, offering a combination of accuracy, speed, and flexibility in a low-cost package.

Also available are seven different families of power sensors with frequency coverage up to 50 GHz and dynamic range up to 90 dB. Most Anritsu power sensors can work in either pulsed/modulated or CW mode (the ML2490A series meters offer both modes). In choosing a power sensor, several factors must be considered, including: frequency range, dynamic range, and the modulation type. The rise time of the sensor should also be chosen to match the rise time of the modulation.

#### PowerSuite

PowerSuite is free software available for the ML2430A-series power meters. This software is used to continuously view measurement traces on the PC in real-time or to archive data and plots for future analysis. PowerSuite runs on a standard PC running Windows® 95 or higher, via GPIB or RS232.

#### ML2430A Series

- Fully Featured General Purpose Power Meter – Ideal for CW applications, offering a combination of speed, accuracy, and flexibility in a low-cost package.
- Designed for Field Applications – Portable, rugged, and splash-resistant chassis design handles the roughest field treatment. Add a front panel cover and soft case for further protection. There is also an optional NiMH battery, providing six hours continuous operation.
- Graphics Display – Provides graphical display of pulsed power or TDMA signals, revealing individual time slots. Frame triggering allows the user to measure the average power across a time slot.
- PowerSuite – PowerSuite is free software for the ML2430A series power meters. This software is used to continuously view measurement traces on the PC in real-time or to archive data and plots for future analysis. PowerSuite runs on a standard PC running Windows® 95 or higher via GPIB or RS232.



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#### Power Meter Models

ML2437A	CW Power Meter, Single Input
ML2438A	CW Power Meter, Dual Input

#### Power Sensors

MA2472D	Standard Diode Sensor (10 MHz to 18 GHz, -70 dBm to 20 dBm)
MA2473D	Standard Diode Sensor (10 MHz to 32 GHz, -70 dBm to 20 dBm)
MA2474D	Standard Diode Sensor (10 MHz to 40 GHz, -70 dBm to 20 dBm)
MA2475D	Standard Diode Sensor (10 MHz to 50 GHz, -70 dBm to 20 dBm)
MA2442D	High-Accuracy Diode Sensor (10 MHz to 18 GHz, -67 dBm to 20 dBm)
MA2444D	High-Accuracy Diode Sensor (10 MHz to 40 GHz, -67 dBm to 20 dBm)
MA2445D	High-Accuracy Diode Sensor (10 MHz to 50 GHz, -67 dBm to 20 dBm)
MA2481D	Universal Sensor (10 MHz to 6 GHz, -60 dBm to 20 dBm)
MA2482D	Universal Sensor (10 MHz to 18 GHz, -60 dBm to 20 dBm)
MA24002A	Thermal Sensor (10 MHz to 18 GHz, -30 dBm to 20 dBm)
MA24004A	Thermal Sensor (10 MHz to 40 GHz, -30 dBm to 20 dBm)
MA24005A	Thermal Sensor (10 MHz to 50 GHz, -30 dBm to 20 dBm)

#### Key Specifications

Frequency	100 kHz to 50 GHz (sensor dependent)
Dynamic Range	-70 to +20 dBm (dependent on sensor, external coupler, or attenuator)
Video Bandwidth	100 kHz (ML2430A)
Channels	1 or 2 channels available in each series

#### General Specifications

Non-Volatile RAM Battery	Lithium (10 year life)
Battery Option	>6 hr usable with 3000 mAh (NiMH) battery
DC Power Requirements	12 to 24 VDC, reverse protected to -40V Maximum input 30V
AC Power Requirements	90 to 250 VAC, 47 to 440 Hz, 40 VA Maximum
EMI, EMC, Safety	Complies with requirements for CE marking EN 61326, EN61010-1
Operating Temperature	0° to 50 °C
Storage Temperature	-40° to 70 °C
Moisture	Splash and rain resistant, 95% humidity non-condensing
Dimensions	213 mm W x 88 mm H x 390 mm D
Weight	3 kg (excluding battery option)
Warranty	3-year standard for all Power Meters, 1-year standard for all Power Sensors

#### Options

ML2400A-01, ML2400A-03	Rack Mount-single unit, Rack Mount-side-by-side
ML2400A-05	Front Bail Handle
ML2400A-06, ML2400A-07	Rear Mount Input A on ML2437A. Rear Input A and Reference on ML2437A
ML2400A-08, ML2400A-09	Rear Mount Inputs A, B and Reference on ML2438A. Rear Mount Inputs A and B on ML2438A
2000-1603	NiMH Battery
2000-996-R, 2000-1534-R	Desktop Battery Charger with power supply, Desktop Battery Charger (for use in Japan only)
2000-1538-R	3 m Sensor Cable
2000-1539-R	5 m Sensor Cable
2000-1540-R	10 m Sensor Cable
2000-1541-R	30 m Sensor Cable
2000-1542-R	50 m Sensor Cable
2000-1543-R	100 m Sensor Cable
2000-1545	Bulkhead Adapter
ML2400A-98	Calibration to Z540, ISO Guide 25
ML2400A-99	Premium Calibration

Options 1 to 5 are mutually exclusive for any given ML2430A unit. Options 6, 7, 8, 9 are mutually exclusive for any given ML2430A unit.