USB POWER SENSORS

MA24106A/MA24108A/MA24118A/MA24126A

50 MHz to 6 GHz | 10 MHz to 8 GHz | 10 MHz to 18 GHz | 10 MHz to 26 GHz

Low Cost, Compact, and Highly Accurate Power Sensors for RF and Microwave Applications

MA24106A

MA24118A

MA24108A

MA24126A

CE

Description

Anritsu USB power sensors eliminate the need of traditional benchtop power meters. These are highly accurate, standalone instruments that communicate with a PC via USB. The power measurement capability of these sensors is intended to mimic that of a traditional thermal (thermo-electric) power sensor with a wider dynamic range. These sensors are ideal for measuring average power of CW, modulated RF waveforms such as 3G, 4G, OFDM, and multi-tone signals. In other words, these sensors measure true RMS power regardless of the type of the input signal.

The presence of a micro-controller along with signal conditioning circuitry, ADC, and power supply in the sensors makes them a complete miniature power meter. These Anritsu USB power sensors come standard with application software (PowerXpert™) for use with PC that mimics the user interface of a power meter.

In addition to the average power measurement capability, the MA24108A, MA24118A and MA24126A sensors have internal and external triggering capability that facilitates individual slot power measurements of TDMA waveforms as well as burst power measurements of periodic and non-periodic waveforms.

These capabilities can be invoked in the power sensor by operating the sensor in Scope or Time slot mode.

Anritsu USB power sensors are compatible with most Anritsu RF and microwave handheld instruments. The high accuracy power meter software option (e.g., Option 19) may be required.

Features and Benefits

- Broad frequency range (10 MHz to 26 GHz)
  - Covers all major cellular bands
- True RMS measurements over 60 dB or more of dynamic range
  - Enables accurate modulated power measurements, including GSM, W-CDMA, LTE, and WLAN signals
- NIST Traceable calibrations
  - Provides traceable measurements needed for aerospace applications
- Compatible with Anritsu handhelds
  - No base unit needed
- Built-in internal and external trigger (only used with PC)
  - Facilitates multi-slot measurement of TDD waveforms (e.g. GSM, WiMAX, and TD-SCDMA)
- High power handling (+33 dBm)
  - Provides protection from overpowering the sensors
- 1 mW calibration need eliminated
  - Reduces test time and handling in production
- Worldwide calibration and service centers
  - Ensure reduced downtime and quick support