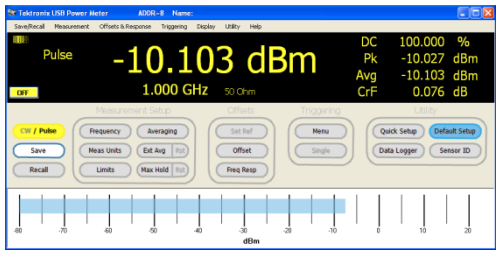
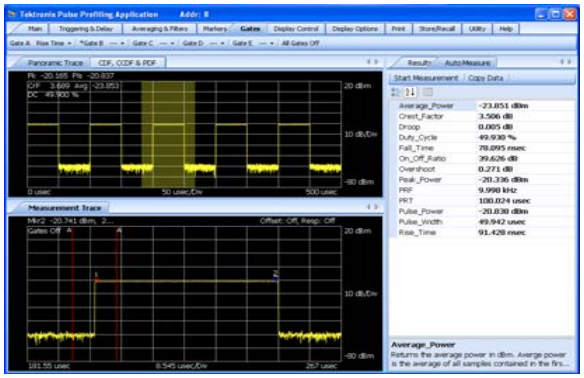
PSM3000/4000/5000 Series

RF and Microwave Power Sensors/Meters

Product Fact Sheet





The performance benchmark for RF/Microwave Power Measurements

The PSM Series Power Meters increase the utility of power meter/sensors for common RF/uWave applications

Features	Benefits
Calibrated over Full temperature range	No zero or cal needed before making measurements, saving time and avoiding poor quality data
Average Power, Duty Cycle Corrected Pulse Power, Logging	Increased utility and functionality for basic power measurements with logging, trend graphing, and limit testing on all models
USB form factor and Windows Connectivity	Reduce rack space and need for separate controller. Runs on Tektronix Windows instruments.
Reading rates to 2000 reading/s	Decrease test time with fastest power measurements available in power meter/sensor
TTL Trigger Input and Output	Synchronize testing with DUT or other ATE test equipment with complex trigger functionality
PSM4000/5000 Pulse Measurements	Characterize pulse signals with adjustable offset and duration
PSM5000 Pulse Profiling	Easy to use graphical interface adds time-gated pulse measurements and statistics such as PDF and CCDF with user defined filtering and bandwidth
PC Connectivity	Control your power meter, log data, and transfer measurement results with LabVIEW drivers and Windows drivers

Featuring:

- 13 Models from 10MHz to 26.5GHz
- Available with “N” and “3.5 mm” connectors
- High Dynamic Range (-60 dBm to +20 dBm)
- No Zero or Cal required
- USB Connectivity and Power
- 2000 readings /s industry benchmark
- Uncertainty as low as 2.6%
- Internal Video Bandwidth 10 MHz for PSM4000/5000 Models
- TTL Triggering Input and Output for complex ATE operation and precision DUT power measurements
- Logging SW for all models
- Pass/Fail Limit Modes
- Graphical software for Pulse Profiling (PSM5000 model)
  - Rise and Fall Time
  - Pulse Width, Rep Rate, Duty Cycle
  - Statistics – CDF, CCDF, PDF
  - Selectable BW and filtering
- 3-year warranty

Tektronix

www.tektronix.com/rfpowermeters

PSM 3000/4000/5000 Series RF and Microwave Power Sensors/Meters

Key specifications and ordering information

Product Fact Sheet

Model	Description	Frequency Range	Dynamic Range	Connector Style	Master Price
PSM3110	Power Meter (Avg Power)	10MHz-8GHz	-55 to +20dBm	3.5mm male	$ 2,590
PSM3120	Power Meter (Avg Power)	10MHz-8GHz	-55 to +20dBm	N-Male	$ 2,590
PSM3310	Power Meter (Avg Power)	10MHz-18GHz	-55 to +20dBm	3.5mm male	$ 3,450
PSM3320	Power Meter (Avg Power)	10MHz-18GHz	-55 to +20dBm	N-Male	$ 3,450
PSM3510	Power Meter (Avg Power)	10MHz-26.5GHz	-55 to +20dBm	3.5mm male	$ 4,390
PSM4110	Power Meter (Avg/Peak/Pulse)	10MHz-8GHz	-60 to +20dBm	3.5mm male	$ 2,790
PSM4120	Power Meter (Avg/Peak/Pulse)	10MHz-8GHz	-60 to +20dBm	N-Male	$ 2,790
PSM4320	Power Meter (Avg/Peak/Pulse)	50MHz-18.6GHz	-40 to +20dBm	N-Male	$ 5,290
PSM4410	Power Meter (Avg/Peak/Pulse)	50MHz-20GHz	-40 to +20dBm	3.5mm male	$ 5,290
PSM5110	Power Meter (Avg/Peak/Pulse + Profiling)	100MHz-8GHz	-60 to +20dBm	3.5mm male	$ 3,690
PSM5120	Power Meter (Avg/Peak/Pulse + Profiling)	100MHz-8GHz	-60 to +20dBm	N-Male	$ 3,690
PSM5320	Power Meter (Avg/Peak/Pulse + Profiling)	50MHz-18.6GHz	-40 to +20dBm	N-Male	$ 6,290
PSM5410	Power Meter (Avg/Peak/Pulse + Profiling)	50MHz-20GHz	-40 to +20dBm	3.5mm male	$ 6,290

Recommended Options	
Opt. C3/C5	3, 5 Year Calibration Service Plan.
Opt. D3/D5	3, 5 Year Calibration Data Report.
Opt. R5	5 Year Repair Service Plan.

Recommended Accessories	
174-6150-00	USB Cable, 2m, 20 AWG
174-6164-00	SMB F to BNC M, 1 m Trigger Cable
348-2013-00	Replacement rubber boot

Key Applications	Benefits
▪ Measuring pulse and radar signals	▪ Accurately characterize pulse waveform behavior with pulse profiling measurements ▪ Characterize abnormal responses of overshoot, ripple, and droop with statistical analysis ▪ Time-gated power measurements simplify test equipment needs
▪ Measuring Wireless Communication Signals	▪ Faster power measurements ▪ No zero and cal improves test speed and reduces repeatability errors ▪ Minimize rack space with USB connectivity ▪ Synchronize measurements to DUT behavior. ▪ Synchronize measurements to ATE equipment modes