

DPM-50 RF In Line Digital Power Meter

DPM-50 has been designed for field engineers and technicians to perform power measurement in wireless networks of various standards.

DPM-50 features high dynamic range, high accuracy, and high stability, it works with PC monitoring software and optional handheld monitor to perform real-time in-line monitoring on entire antenna system and saves test data for analysis and evaluation.

The typical application is to monitor the transmitter and antenna of wireless base station during network installation and maintenance, DPM-50 can quickly measure forward power of transmitter, reflected power of antenna and entire system's VSWR.

DPM-50 is the ideal tool for base station and antenna system measurement and troubleshooting.

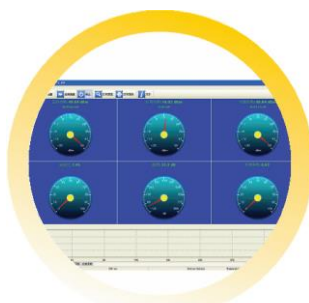
Function

- ◆ Measures 2G/3G wireless network, including GSM900/1800, CDMA800/1900, TD-SCDMA, WCDMA, CDMA2000, WLAN 2.4G & WiMAX or user-defined band
- ◆ High-accuracy forward/reflected power, VSWR, Return Loss & load power measurement
- ◆ Peak power and Peak/Average Ratio measurement
- ◆ Burst power measurement
- ◆ Monitor function & test data saving
- ◆ PC monitoring software and handheld monitor for result display
- ◆ Standard N(Female) connector supports various transmission cable & antenna
- ◆ USB & DB9 interface
- ◆ Reverse connection protection



Features

- ◆ Handheld & portable
- ◆ Handheld monitor with backlight display
- ◆ USB for real-time monitoring & data transfer
- ◆ 320x240 TFT Color LCD (Optional)
- ◆ Straightforward test result display
- ◆ CE, FCC certificates



RF Power Meter Software



DPM-50-MP

Measurement [Auto Measurement]	
Fwd	2010-09-19 12:34
-28.470	Reflected Power:
Reflect	-27.740
-27.740	
Load	
-35.844	
Vswr	
23.811	
RtnLoss	Current Frq (MHz):
-0.7300	CDMA 800: (870~885MHz)
Coe	Unit: dBm Temp: 25.0°C
0.9194	
Measure	Frq Sel Unit Su Options

Reflected Power Measurement

Specifications

Model	DPM-50AP
Average Power Measurement	
Frequency Range	300-4200MHz
Power Range	100mW-200W
Dynamic Range (dB)	≥33
Insertion Loss (dB)	≤0.1
VSWR	1.05 to 99.9
Directivity	≥30 (<3GHz); ≥28 (>3GHz)
Accuracy	±4%+0.05W (0°C~+15°C or +35°C~+50°C increase 3%)
Impedance	50Ω
Connector	N (Female)
Data Interface	USB
DPM Interface	DB9
Peak Power Measurement	
Peak Power Range	100mW to 500W
Peak Power Accuracy	Burst width >200us: ±7%; 1us<Burst width< 200us: ±10%; 0.5us<Burst width< 1us: ±15%; Burst width< 0.5us: ±20%; NOTE: lower 700MHz or higher 3300MHz, increase +3% lower 15°C or higher 35°C, increase +3% Duty Cycle lower 0.1, increase +0.1W Frequency lower 10HZ, +(1.5%+0.15W)
Peak Average Ratio	0 to 12dB
CCDF	
Measurement Range	0.1 to 100%
Measurement Accuracy	±3%
Threshold Measurement Range	0.05W to 500W
Burst Power	
Burst Power Range	100mW to 200W
Burst Width	1us to 60ms
Min. Measurement Frequency	15HZ
Measurement Accuracy	±6% +0.05W (0°C to +15°C or +35°C to +50°C, increase +3%) Note: lower 700MHz or higher 3300MHz, increase +3%
Duty Cycle	0.0001 to 1
General Specifications	
Power Supply (Monitor)	NiMH Battery/ AC Adaptor
Operating Temperature	-10°C to 50°C

Storage Temperature	-20°C to 70°C
Relative Humidity	0 to 85% (Non-condensing)
Weight	480g (Sensor)/ 900g (Handheld monitor)
Dimensions (H×W×T)	130×(95)×124×34mm (Sensor); 220×110×70mm (Handheld monitor)

* Specifications subject to change without notice

Ordering Information

Standard Package:

DPM sensor, USB cable, Software CD, Soft carry bag, Warranty card, CE certificate, Certificate of calibration, User's manual.

Option:

1. *DPM-50-MP DPM handheld monitor*
2. *DB9 cable*