

DPM-50 RF In Line Digital Power Meter

Product Overview

DPM-50 has been designed for field engineers and technicians to perform power measurements of wireless networks of various standards. DPM-50 features high dynamic range, high accuracy, and high stability, it works with PC monitoring software and an optional handheld monitor to perform real-time in-line monitoring on the entire antenna system and saves test data for analysis and evaluation. The typical application is to monitor the transmitter and antenna of a wireless base station during network installation and maintenance, DPM-50 can quickly measure the forward power of the transmitter, reflected power of the antenna and entire system's VSWR. DPM-50 is the ideal tool for base station and antenna system measurement and troubleshooting.



Function

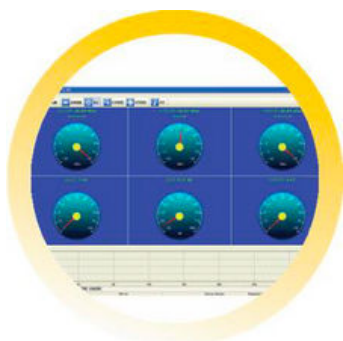
- ▶ Measures 2G/3G wireless network, including GSM900/1800, CDMA800/1900, TD-SCDMA, WCDMA, CDMA2000, WLAN2.4G & WiMAX or user-defined band
- ▶ High-accuracy forward/reflected power, VSWR, Return Loss & load power measurement
- ▶ Peak power and Peak/Average Ratio measurement
- ▶ Burst power measurement
- ▶ 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
- ▶ 320.240TFT Color LCD (Optional)
- ▶ Straightforward test result display
- ▶ CE, FCC certificates

| Measurement [Auto Measurement] | |
|--------------------------------|-------------------------|
| Fwd -28.470 | 2018-09-19 12:34 |
| Reflect -27.740 | Reflected Power: |
| Load -35.844 | -27.740 |
| Usur 23.811 | |
| RtnLoss -0.7300 | Current Frq (MHz): |
| Coe 0.9194 | CDMA 800: (870~885MHz) |
| | Unit: dBm Temp: 25.0°C |
| Measure | Frq Sel Unit Sw Options |

Reflected Power Measurement



RF Power Meter Software



DPM 50 MP



Specifications

| | |
|----------------------------------|--|
| Model | DPM-50AP |
| Average Power Measurement | |
| Frequency Range | 300-4200MHz |
| Power Range | 100mW-200W |
| Dynamic Range(dB) | ≥33 |
| InsertionLoss (dB) | ≤0.1 |
| VSWR | 1.05to 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 | |
| PeakPower Range | 100mW to 500W |
| Peak Power Accuracy | Burst width >200us:±7%; 1us<Burst width<200us: ±10%; 0.5us<Burst width<1us: ±15%; lower15°C or higher 35°C, increase+3% NOTE: lower 700MHz or higher 3300MHz, increase+3% Burst width<0.5us: ±20%; Duty Cycle lower0.1, increase+0.1W Frequency lower 10HZ, +(1.5%+0.15W) |
| Peak Average Ratio | 0 to12dB |
| CCDF | |
| Measurement Range | 0.1 to 100% |
| MeasurementAccuracy | ±3% |
| Threshold Measurement Range | 0.05W to 500W |
| Burst Power | |
| Burst Power Range | 100mWto200W |
| Burst Width | 1us to 60ms |
| Min. Measurement Frequency | 15HZ |
| MeasurementAccuracy | ±6% +0.05W (0°Cto +15°C or +35°Cto+50°C, increase+3%) Note: lower 700MHz or higher 3300MHz, increase+3% 0.0001 to 1 |
| Duty Cycle | 0.0001 to 1 |



| General Specifications | |
|------------------------|---|
| Power Supply (Monitor) | NiMHBattery/ ACAdaptor |
| Operating Temperature | -10°Cto50°C |
| Storage Temperature | -20°Cto70°C |
| Relative Humidity | 0to85% (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 manual.

Optional Module:

1. DPM-50-MPDPMhandheld monitor
2. DB9cable

