M3M Series Power Meters

- Frequency range from 10 MHz to 18 GHz
- Dynamic range from –50 dBm to +20 dBm
- High Power accuracy ±0.33 dBm
- Lightweight and Rugged Design
- Simple set-up and usage
- Up to 16 hours of operation with built-in battery

Description

M3M-18 power meter measures the power level of continuous wave (CW) RF and Microwave signals from 10 MHz to 18 GHz frequency range. Power supply is performed via internal battery. M3M is used for design, tuning, testing and verifying various RF and MW devices for electronics, communication, radars, T&M.

Main Capabilities

- CW signals power measurement from 0.01 to 18 GHz
- Pulse measurement from –50 dBm to –20 dBm power range
- Absolute and relative power measurements
- Validation and characterization of amplifiers, switches, and other RF\MW components

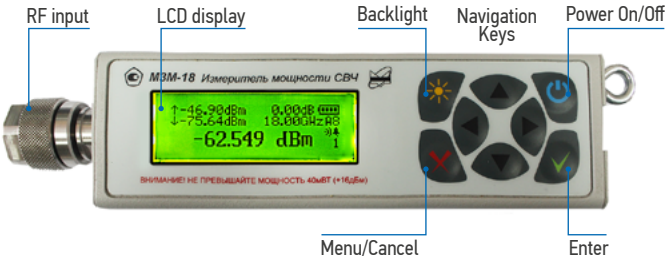
Software

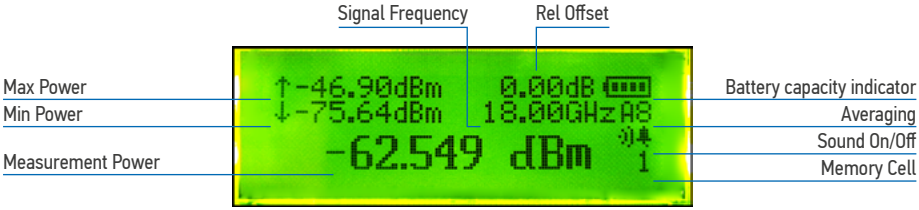
- User-friendly interface
- Saving measurement results to PC file (.txt, .csv)
- Measurement results correction with reference to external devices insertion loss/gain
- Linear and Log scales

Specifications

Key measurement specifications	
Frequency range	10 MHz ... 18 GHz
Power range	–50 ... +20 dBm 1 nW ... 100 mW
Power accuracy	±8.0% ±0.33 dB
VSWR	1.2
Impedance	50 Ohm
Working Time	8 hours with backlight 16 hours without
Charge time, max	Power charger - 3 hours Through USB cable – 8 hours
Environmental	Temperature range from +5 °C to +40 °C 90% relative humidity at 30 °C (non-condensing) Atmospheric pressure from 70.0 to 106.7 kPa (537 to 800 mm)
Dimensions (LxWxH)	177x48x32,5 mm
Weight	0.35 kg

External View





Ordering Information

Modifications	
M3M-18-11	Power meter, 10 MHz ... 18 GHz, Type N (male)
M3M-18-01	Power meter, 10 MHz ... 18 GHz, Type III (male)

Standard set
USB Cable assemble, Type A – B, 1.2 m
USB Flash Memory with software, support documentation, drivers
Power Charger AC-220-Si-10-6-700
English User Manual
Calibration Certificate
Soft Carry Case Pelican 1150

Additional adapters, attenuators, cable assemblies could be added upon a request.