

## M3M power meters

### Features

- Operating frequency range from 10 MHz to 18 GHz
- Dynamic range from -60 dBm to +20 dBm
- Up to 16 hours continuous internal battery operation



**INCLUDED IN STATE REGISTER  
OF MEASURING INSTRUMENTS**

### Description

M3M-18 power meter is designed to measure power of continuous harmonic microwave signals. Diode detector is used as conversion element, which provides measurements in wide dynamic and frequency ranges. M3M power meters are used in manufacturing, tuning and testing of equipment and microwave assemblies used in radio electronics, communications, instrument engineering and measuring equipment, both in laboratory and in the field.

### Main capabilities

- Measuring the power of continuously generated microwave oscillations between 0.01 GHz and 18 GHz;
- Absolute and relative power measurement modes;
- Displaying results in linear and logarithmic scales;
- Logging measured data in computer file;
- Correction of measured data with consideration of transmission coefficient of external devices;
- Audible announcement on exceeding the specified range.

### Specifications

Parameter	Guaranteed value	Typical value
Operating frequency range	10 MHz ... 18 GHz	
Power measurement range	-40 ... +10 dBm (0.1 μW ... 10 mW)	-60 ... +20 dBm (1 nW ... 100 mW)
Maximum allowable basic measurement error	± 20.0% ± 0.8 dBm	± 8.0% ± 0.33 dBm
<b>Input VSWR</b>		
10 MHz to 12 GHz	1.4	1.2
12 to 18 GHz	1.5	
Wave impedance	50 Ohm	
Output microwave connector type as per GOST RV 51914	type III (male)	
<b>Continuous battery operation time, min.</b>		
with backlight	8 hours	
without display backlight	16 hours	
<b>Charging time, max.</b>		
with charger	3 hours	
via USB port	8 hours	
<b>Operating conditions</b>		
ambient temperature	+5 ... +40 °C	
relative humidity at 30 °C, max.	90%	
atmospheric pressure	537 ... 800 mmHg	
Dimensions (LxWxH)	177 × 48 × 32.5 mm	
Weight	0.35 kg	

## Ordering information

### Basic supply set

1) Power meter M3M-18. 2) USB cable. 3) Charger. 4) Operational documentation. 5) Carrying case.

### Versions

M3M-18	Power meter, 10 MHz ... 18 GHz, type III connector (male)
M3M-18-11*	Power meter, 10 MHz ... 18 GHz, type N connector (male)

### Additional accessories

On your request, the power meters may be supplied with microwave cable assemblies, adapter kits, attenuators.

\* Noncertified version.

## Ordering example

- M3M-18 — 1 pcs.