

TW4601 Series Microwave Power Meter



Order Code

TW4601

Maxwellon TW4601 series Microwave Power Meter is composed of a host of microwave power meter and a series of microwave power sensors. TW4601 series have a wide frequency band, large dynamic power range, high precision, fast measurement and analysis, serialization of sensors. It is mainly used for measuring and calibrating the average power, peak power and pulse envelope power of microwave signals. TW4601 series is an important measurement instrument for the research, production, acceptance and maintenance of radar, electronic countermeasures, and communications.

TW4601 series is a good suitable of Keysight N1911A/ N1912A/ N1913A/ N1914A.

Features:

- Wide frequency range, up to 500GHz
- A variety of sensor options: CW power sensor frequency up to 500GHz with the max. dynamic range 90dB, Peak power sensor frequency up to 67GHz with the max. dynamic range 60dB
- More than 10 kinds of measurement and analysis functions of amplitude and time domain parameters for microwave / millimeter-wave pulse modulation signals
- Flexible and open frequency offset list setting, with high-power attenuator or high-power directional coupler to achieve accurate measurement of signal power
- Multiple measurement modes: CW measurement, peak measurement, CCDF statistic measurement
- Peak power sensors use internal calibration
- GPIB, LAN, USB programmable control function
- Save and recall configuration information

Specifications

Parameters	Specifications
Frequency Range	9 kHz to 500 GHz
Channel	Single / Dual
CW Power Range	-70dBm to +50dBm
Pulse Power Range	TW4601 PA/PB: -40dBm to +20dBm
Max. Display Resolution	Log: 0.001dB Line: 0.0001

Relative Offset Range	± 100dB
Pulse Rise Time	TW4601 PA/PB: ≤ 13ns
Video Bandwidth	TW4601 PA/PB: ≥ 30MHz
Max. Pulse Repetition Frequency	TW4601 PA/PB: 10MHz
Min. Pulse Width	50ns
Time Base	
Internal Trigger Level Range	-20dBm to +20dBm
Calibration Source Frequency	50MHz ± 1MHz
Calibration Source Power	1.000mW (1±1.0%)
Output Port	Type-N (female)
Uncertainty	± 0.04dB
Display	4.3 inch color LCD
Power Consumption	50W
Power Supply	100-240VAC, 50-60Hz
Dimension	220 (W) × 100 (H) × 350 (D) mm
Weight	5kg

Ordering Information

Part No.	Name	Description
TW4601 CA	Microwave Power Meter	500GHz, 1CH, CW power measurement
TW4601 CB	Microwave Power Meter	500GHz, 2CH, CW power measurement
TW4601 PA	Microwave Power Meter	500GHz, 1CH, CW/Peak power measurement
TW4601 PB	Microwave Power Meter	500GHz, 2CH, CW/Peak power measurement

CW Power Sensor Options

Part No.	Name	Description
TW4601-001	M71710A Continuous Wave Power Sensor	Frequency range: 9kHz-12GHz, Power range: -60dBm to +20dBm
TW4601-002	M 71710A Continuous Wave Power Sensor	Frequency range: 10MHz-18GHz, Power range: -70dBm to +20dBm
TW4601-003	M 71710A Continuous Wave Power Sensor	Frequency range: 50MHz-26.5GHz, Power range: -70dBm to +20dBm
TW4601-004	M 71710A Continuous Wave Power Sensor	Frequency range: 50MHz-40GHz, Power range: -70dBm to +20dBm
TW4601-005	M 71710A Continuous Wave Power Sensor	Frequency range: 50MHz-67GHz, Power range: -70dBm to +20dBm

Peak Power Sensor Options (Only for TW4601 PA/PB)

Part No.	Name	Description
TW4601-006	M81702D Peak Power Sensor	Frequency range: 50MHz-18GHz, Power range: -20dBm to +20dBm, Rise time <10ns

TW4601-007	M81702E Peak Power Sensor	Frequency range: 500MHz-26.5GHz, Power range: -20dBm to +20dBm, Rise time <10ns
TW4601-008	M81702F Peak Power Sensor	Frequency range: 500MHz-40GHz, Power range: -20dBm to +20dBm, Rise time <10ns
TW4601-009	M81702L Peak Power Sensor	Frequency range: 500MHz-67GHz, Power range: -20dBm to +20dBm, Rise time <10ns
TW4601-010	M81703D Peak Power Sensor	Frequency range: 50MHz-18GHz, Power range: -40dBm to +20dBm, Rise time <100ns
TW4601-011	M81703E Peak Power Sensor	Frequency range: 500MHz-26.5GHz, Power range: -40dBm to +20dBm, Rise time <100ns
TW4601-012	M81703F Peak Power Sensor	Frequency range: 500MHz-40GHz, Power range: -40dBm to +20dBm, Rise time <100ns
TW4601-013	M81703L Peak Power Sensor	Frequency range: 500MHz-67GHz, Power range: -40dBm to +20dBm, Rise time <100ns

Millimeter Wave Power Sensor Options

Part No.	Name	Description
TW4601-030	M71716 Millimeter Wave Power Sensor	Frequency range: 50GHz-75GHz, Power range: -30dBm to +20dBm
TW4601-031	M71717 Millimeter Wave Power Sensor	Frequency range: 75GHz-110GHz, Power range: -30dBm to +20dBm
TW4601-032	M71718 Millimeter Wave (THz) Power Sensor	Frequency range: 110GHz-170GHz, Power range: -30dBm to +20dBm
TW4601-033	M87106A Millimeter Wave (THz) Power Sensor	Frequency range: 170GHz-220GHz, Power range: -30dBm to +20dBm
TW4601-034	M87106B Millimeter Wave (THz) Power Sensor	Frequency range: 220GHz-325GHz, Power range: -30dBm to +20dBm
TW4601-035	M87108B Millimeter Wave (THz) Power Sensor	Frequency range: 325GHz-500GHz, Power range: -30dBm to +20dBm

Other Options

Part No.	Name	Description
TW4601 -021	2U-213 Racking Kit	Using for cabinet
TW4601 -022	Rear Panel Output	Equipped with a probe input measurement option
TW4601 -024	Probe Connection Cable	1.5m, Connect the sensor to the main machine

Please visit **NEW** web site!

<http://www.maxwellon.com>

MAXWELLON ELECTRONIC INSTRUMENTS CO.,LTD.

NO.153 Zhuzhou Rd.,Laoshan District, Qingdao 266100, China.

Tel: 0086-532-80977508 Fax: 0086-532-80977508

E-mail: Sales@Maxwellon.com