

ARTISAN®
TECHNOLOGY GROUP

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Artisan Technology Group
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TPM-300CE

POWER MONITOR

TPM-300CE

CE

- **Robust**
- **Versatile**
- **Analog & Digital Displays**
- **User-Friendly**
- **CE Marked**

TPM-300CE

This is our robust, economy workhorse for laser power measurement. TPM-300CE is portable, accurate, easy to use and tough. It has a rugged metal case and good EMI/RFI insensitivity.

Analog and Digital Displays

This versatile monitor comes with two displays. One is a large 3.5 inch analog meter that is ideal for tuning even from a distance. The other is a 4-digit LCD for maximum resolution when making your measurements.

Rechargeable Battery

At the bench, use its standard AC adapter to plug it into any wall socket, or take it on the road where the rechargeable battery will give you 8 trouble-free hours of operation. The low battery LED will let you know before time is up.

Auto-Calibration

The TPM-300CE reads the data in the intelligent connectors so that it automatically recognizes every thermopile power detector head, ensuring accurate auto-calibration. Plug it in and you are ready to go.

Milliwatts to Kilowatts

With 12 scales, you can read laser powers as high as 10 kW, and less than 1 mW on the 30 mW scale. That is sensitive enough to require thermal isolation around the detector like that provided by our Isoperibol enclosure. There is a zero adjust potentiometer that gives you the control to deal with changes in the environment.

Fast Response

A high-performance, software controlled, anticipation circuit maintains stable readings while reducing the response time to as low as 1 second.

Analog and Digital Data Out

You also have the flexibility of two data outputs. The RS-232 port lets you connect to your computer and the 0-1 VDC analog output is suited for chart recorders and plotters.

Versatile Mounting

More adaptability is provided by the unique pivoting stand that lets you lock the unit into any position over a full 360 degrees. You can turn this stand into a mounting bracket for fixed mounting off of the table at your work station. A great value!

Wavelength Adapter

If you purchase the optional wavelength adapter, you gain access to two different sensitivities for operation at two wavelengths with greater accuracy.

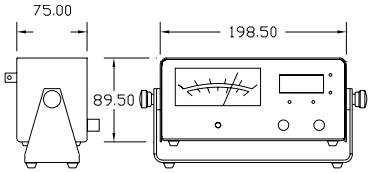
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TPM-300 SPECIFICATIONS

APPLICATIONS

OEM
Lab
Laser manufacture and test
Online monitoring
Field service

TPM-300CE



All dimensions in mm

POWER METER SPECIFICATIONS

Power Range	1 mW to 10 kW
Power Scales	12 scales: 0.03W, 0.1W, 0.3W, 1W, 3W, 10W, 30W, 100W, 300W, 1kW, 3kW, 10kW
Resolution (digital)	100 µW on the 30 mW scale
Monitor Accuracy	±1%
Response Time	1 sec (with UP19K series, varies with detector head)

GENERAL SPECIFICATIONS

Detector Compatibility	Thermopile power detector
Analog Display	91 x 40 mm analog panel meter
Digital Display	4 digit LCD readout, 46 x 19 mm
Analog Output	0 – 1 volt, full scale, ±0.6 %
Connector Ports	BNC and RS-232
Battery	5 rechargeable 1.2 V NiCad AA
Battery Life	8 hours
Battery Charge Time	9 hours to full charge
External Power Supply	
110 volt CSA/UL approved	Input: 100/120 VAC, 60Hz, Output 12 VDC, 800 mA
220 volt CE/VDE/TÜV approved	Input: 220/240 VAC, 50Hz, Output 12 VDC, 1A
Dimensions (with mount)	243 (W) x 100 (D) x 120 (H) mm
Dimensions (without mount)	200 (W) x 100 (D) x 93 (H) mm
Weight (with mount)	1.6 kg

Order number	Description
100-45113	TPM-300CE (with power supply – 100/120 VAC UL / CSA)
100-45113	TPM-300CE (with power supply – 220/240 VAC CE / VDE / TÜV)
100-16651	Wavelength adapter

Specifications subject to change without notice.

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