TED8000-40 Rev A Feb 2012

DESCRIPTION

The TED8000-40 is a Laboratory-quality, True RMS power meter with USB interface. The RF power is measured using a IC log detector and provides accurate RMS power over a 50 dB dynamic range. Models are available from 50MHz to 14.5GHz. The device is powered from the USB interface and the power is read by a free utility running on any XP, Vista or Windows 7 PC.

The µMeter is the smallest USB power meter available and is also priced significantly below the current market offerings.

Applications include basic power measurement but also data logging for life test or system performance monitoring where the device needs to be left unattended for long periods. The optional HUB allows the µMeter to continue to make measurements after the host PC is removed from the system.

The sensor contains 0.5GB of flash memory used for calibration tables but also available for file storage and data logging. All drivers, utilities and documentation are available on the sensor itself.

CALIBRATION

Calibration is performed at the factory and cal tables are loaded in Flash. Custom calibration tables can be loaded if greater accuracy is required at a specific frequency. No zeroing or cal standards required. Temperature correction is achieved using internal temperature sensor, also available to the user.

TELEMAKUS LLC

RF DESIGN SERVICES

BENEFITS

- 40dB Dynamic Range
- USB interface
- 50MHz to 8GHz

FEATURES

- True RMS Accuracy
- PC Software supported
- 0.5dB Accuracy
- Max input +20dBm

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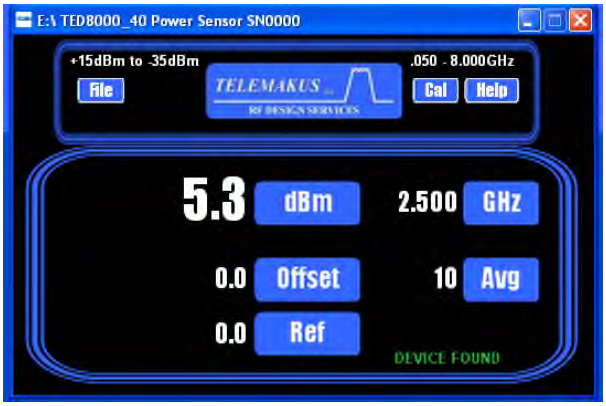

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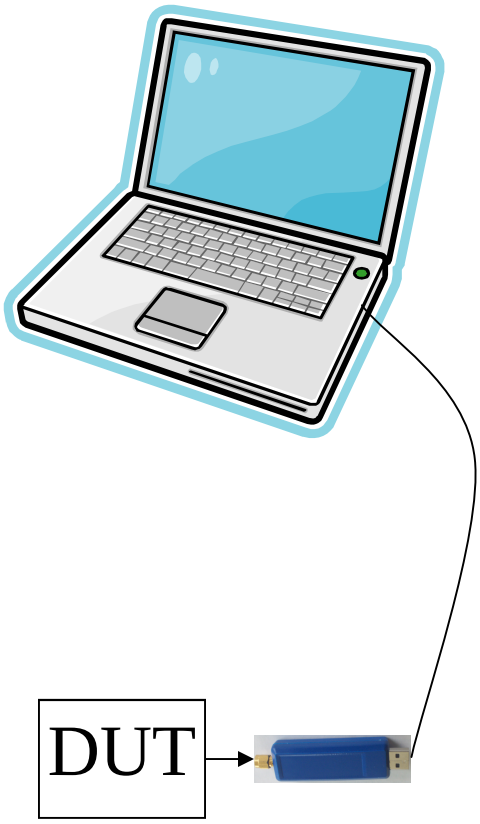
Ordering Information

Model	Frequency	Max Input	
TED8000-40	50MHz to 8GHz	**+20dBm**	
TED6000-50	50MHz to 6GHz	**+20dBm**	



Typical Configuration

Specifications

Parameter	Specification
Freq Range	50MHz to 8GHz
Dynamic Range 50-6000MHz	+15dBm to –40dBm
Dynamic Range 6000-8000MHz	+15dBm to –35dBm
Interface	USB 2.0
Current	150mA @ 5V
Accuracy	+/-0.5dB
Sample Rate	10Hz
RF Input Connector	SMA Male
USB Connector	Mini A

Environmental

Temperature Range	-40 to +55 degC		
Not Environmentally sealed			

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