



FieldMax-TOP

Introducing FieldMax™-TOP, an affordable, versatile, easy-to-use digital power and energy meter designed for field service and production test applications.

FieldMax-TOP features a large, easy-to-read backlit LCD and an intuitive user interface offering direct button-driven control for simple operation.

To facilitate laser tuning, FieldMax-TOP provides a unique tuning feature. Full statistics are supported, including max., min., mean, and standard deviation. FieldMax-TOP is compatible with our thermal, optical, and pyroelectric sensors. It can measure power from nW to kW, and pulse energy from nJ to J at up to 300 pps. In addition, long pulse energy measurements can be made when using thermal sensors.

FieldMax-TOP features SmartProbe™ compatibility, which stores sensor responsivity, the serial number, and other important information in an EEPROM that automatically loads into the power and energy meter. The battery- and AC-operated unit also comes standard with a USB computer interface and applications software.

When it comes to an intuitive, versatile Laser Power and Energy Meter that will satisfy your measurement needs in the field or on the production floor, there's only one name to remember—FieldMax-TOP.



Laser Power/ Energy Meter

FEATURES

- *Large, bright, backlit LCD display*
- *Digital accuracy with analog-like movement for laser tuning*
- *Simulated analog-like movement for laser tuning*
- *Works with thermal, optical, and pyroelectric sensors*
- *Measures energy up to 300 pps*
- *Intuitive button-driven user interface*
- *USB 1.1 interface*
- *Portable AC/DC operation*
- *Compact, rugged enclosure with stand*

COMPATIBILITY

- *All PowerMax® thermal sensors*
- *All optical sensors*
- *Wide selection of pyroelectric joulemeter sensors*

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Laser Power/Energy Meter

		FieldMax-TOP
Specifications	Size (H x W x D)	20 x 10 x 4 cm (8 x 4 x 1.5 in.)
	Weight (including batteries)	0.5 kg (1.1 lb.)
	Instrument Power	Six 1.5V alkaline batteries, 90 to 260 VAC, 50/60 Hz
	Digital Output	USB 1.1
	Display	58 x 73 mm, fixed-segment LCD with backlight
	Digital Tuning Needle	Tau (100 mS), update rate (20 Hz)
	Rep. Rate	2-300 Hz \pm 1 Hz
	Measurement Range	Full scale (sensor dependent)
	Energy Mode	
	Thermal Sensor, Long Pulse	300 μ J to 999.9J
	Pyroelectric Sensor	3 μ J to 300J
	Power Mode	
	Thermal Sensor	3 mW to 30 kW
	Optical Sensor	300 nW to 30 mW
	Measurement Resolution	\pm 0.1% of full scale
	Internal Trigger	Selectable (2 to 20% full scale)
Temperature		
Operating	5°C to 40°C (41°F to 104°F)	
Storage	-20°C to 70°C (-4°F to 158°F)	
Measures	Power	W, W/cm ²
	Energy	J, J/cm ²
	Frequency	Hz
	Full Statistics	Min., max., mean, and standard deviation
	Wavelength Correction	Power sensors
Controls & Connections	Front Panel	
	PWR/BL	Toggle power switch and backlight
	Hz	Display rep. rate
	J/W	Select joules or watts mode
	ZERO	Reset ambient offset for thermal and optical sensors
	AUTO	Engage auto-ranging for thermal sensors
	STAT	Display full statistics: max., min., mean, standard deviation
	AVG	Engage averaging
	WAVE	Enter wavelength and engage wavelength compensation
	ATTN	Enter attenuation factor and engage attenuation
	AREA	Enter area and engage area correction to display W/cm ² or J/cm ²
	TRIG	Select trigger level from 2 to 20% full scale (for energy sensors)
	SET/ENT	Set and enter button
	ARROW KEYS	Manually control range: Select STAT value (min., max., mean, standard deviation) Select and change numerical values
	Left Side Panel	Power jack connector
Right Side Panel	USB connector DB-25 smart probe connector	



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Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice.

Coherent offers a limited warranty for all FieldMax-TOP systems. For full details of this warranty coverage, please refer to the Service and Support section at www.Coherent.com or contact your local Sales and Service Representative.

