



# FieldMaxII Family

## Laser Power and Energy Meters

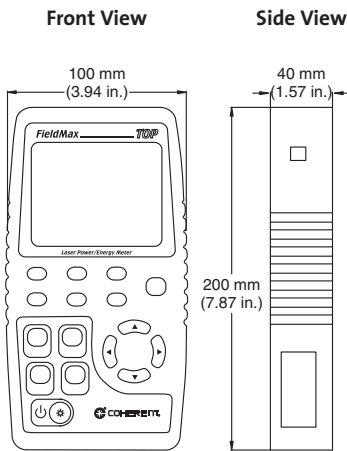


### Features

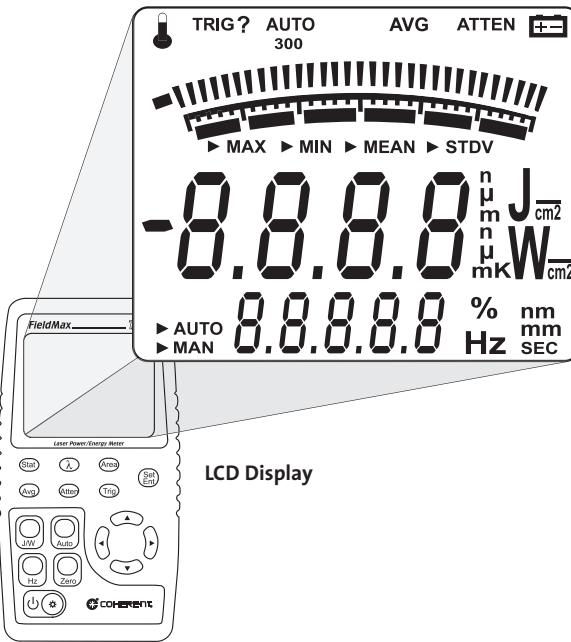
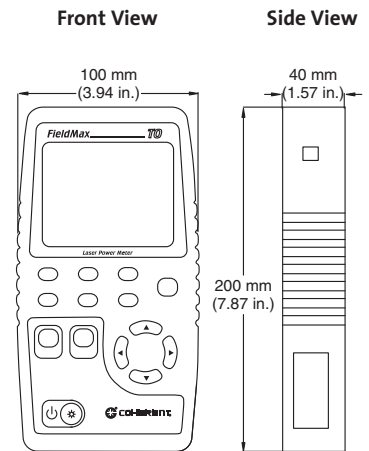
- FieldMaxII-TOP, -TO and -P models
- Large, bright, backlit LCD display
- Digital accuracy with analog-like movement for laser tuning
- Works with thermopile, optical, and pyroelectric sensors
- Measures energy up to 300 pps
- Intuitive button-driven user interface
- USB interface with complete host control capability
- Analog output with selectable full-scale voltage (1, 2, and 5V)
- LabVIEW drivers, applications software, ActiveX DLL server components
- Portable AC/DC operation
- Rechargeable battery pack
- Compact, rugged enclosure with stand

### Mechanical Specifications

FieldMaxII-TOP



FieldMaxII-TO & -P



Superior Reliability & Performance

# FieldMax™ II Family

## Laser Power and Energy Meters

### Device Specifications

	FieldMaxII-TO <sup>P</sup>	FieldMaxII-TO	FieldMaxII-P
Function	Power and energy	Power	Energy
Measurement Resolution (%)	0.1 of full-scale		
Measurement Range	Sensor dependent - reference sensor specifications		
Accuracy			
Digital Meter (%)	±1.0 ±2LSD		
System	Meter accuracy + sensor accuracy		
Analog Output (%)	±1.0		
Uncertainty (%)	±1.0		
Power Sampling Rate (Hz)	10	10	–
Maximum Pulse Rep. Rate (Hz)	300	–	300
Display (mm)	58 x 73, fixed-segment LCD with backlight		
Digital Tuning Indicator (msec)	100 time constant		
Statistics	Mean, max., min., standard deviation		
PC Interface	USB 1.1		
Analog Output (VDC)	0 to 1, 2, or 5 (selectable)		
Internal Trigger	2 to 20% of full-scale, selectable	–	2% to 20% of full-scale, selectable
Temperature			
Operating Range	5 to 40°C		
Storage Range	-20 to 70°C		
Instrument Power (VAC)	100 to 240, 50/60 Hz		
Instrument Batteries	Rechargeable NiMH battery pack		
Regulations Met	CE, RoHS, WEEE		
Dimensions (H x W x D)	200 x 100 x 40 mm, 0.5 kg (7.87 x 3.94 x 1.57 in.)		
Weight	0.5 kg (1.1 lbs.)		

### Controls & Connections

Front Panel	Toggle power switch and backlight		
PWR	Toggle power switch and backlight		
HZ	Display repetition rate	–	Display repetition rate
J/W	Select joules or watts mode	–	–
ZERO	Reset ambient offset for thermal and optical sensors		Zero stats
AUTO	Engage auto-ranging with power sensors		–
STAT	Display statistics: mean, max., min., standard deviation		
AVG	Engage display averaging		
λ	Enter wavelength and engage wavelength compensation		
ATTEN	Enter attenuation factor and engage attenuation		
AREA	J/cm <sup>2</sup> (fluence)	W/cm <sup>2</sup> (power density)	J/cm <sup>2</sup> (fluence)
	W/cm <sup>2</sup> (power density)	–	–
HOLD	–	Holds displayed values on screen	
TRIG	Select trigger level with energy sensors	–	Select trigger level with energy sensors
SETUP/LOCAL	Set and enter button/Takes local control of meter back from PC		
ARROW KEYS	Manually control range; Select Stats parameter; Select and change numerical values		
Left Side Panel	Power jack USB PC interface port Analog output		
Right Side Panel	DB-25 sensor port		
Part Number (RoHS)*	1098580	1098579	1098581

\* Meter supplied with NiMH rechargeable battery pack, power cord, AC adapter, USB cable (1.8m), RCA-to-BNC analog output adapter, user manual, installation CD with FieldMaxII PC and drivers, soft carrying case, and certificate of calibration.

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

Coherent's FieldMaxII meters are compliant with the EU Restriction of Hazardous Substances (RoHS) and Waste Electrical and Electronic Equipment (WEEE) Directives. They also meet the intent of Directive 89/336/EEC for Electromagnetic Compatibility (CE). CE compliance was demonstrated per testing to EN61326 Electromagnetic Compatibility Product Family Standard for Measurement, Control and Laboratory Equipment.

Coherent offers a Limited Warranty for all FieldMaxII meters. For full details of this warranty coverage, please refer to the "Warranty Information for Instruments" webpage under the Service section of our website at [www.Coherent.com](http://www.Coherent.com) or contact your local Sales or Service representative.



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# FieldMate

## Laser Power Meter

This latest member of Coherent's power meter line-up combines both a steady digital display and fast analog meter to provide the most economical way to make power measurements. These small, rugged power meters are ideal for use in the field, and the analog output (0 to 2V) facilitates external power analysis on the manufacturing floor, while retaining a simple-to-use user interface.

FieldMate™ improves upon a familiar method of peaking and tweaking laser power output – the analog needle. With faster electronics and a sophisticated digital processing algorithm, the FieldMate's analog needle responds faster than older meters, enabling rapid, sensitive laser adjustment.

FieldMate is compatible with all PowerMax thermal sensors and a variety of optical sensors, allowing its use with lasers from the ultraviolet to the infrared, from nW to kW. Built-in wavelength compensation ensures that readings at any wavelength will remain accurate. LM-model thermopiles and optical sensors are compatible via an optional SmartSensor adapter (item number 1056827).

The meter is powered from standard 9V batteries (available worldwide) and includes a battery eliminator power supply.

### FEATURES

- *Large LCD display*
- *Analog movement for laser tuning*
- *Works with thermal and optical sensors*
- *Wavelength compensation*
- *Simple user interface*
- *Analog output*
- *Portable AC/DC operation*
- *Compact, rugged enclosure with stand*

### COMPATIBILITY

- *All PowerMax® thermal sensors*
- *OP-2 model optical sensors*
- *All LM model thermal and optical sensors with optional SmartSensor adapter*



		FieldMate
<b>Specifications</b>	Size (H x W x D)	19.3 x 11.7 x 4.6 cm (7.6 x 4.6 x 1.8 in.)
	Weight (including batteries)	0.8 kg (1.75 lb.)
	Instrument Power	Two 9V alkaline batteries, 90 to 260 VAC, 50/60 Hz
	Display	26 x 89 mm (1.02 x 3.5 in.), fixed-segment LCD
	Digital LCD Update Rate	≥3 times/sec.
	Analog Meter	
	Meter Response	Tau = 80 ms (2 Hz)
	Meter Scale	0 to 3, 60 divisions, and 0 to 10, 100 divisions
	Analog Output	0 to 2V
	Analog Output Update Rate	20 times/sec.
	Measurement Range	
	Display Power	0.01 mW to 29.9 kW (thermopile) 1 nW to 99.9 mW (optical)
	Measurement Resolution Power	±0.1% of full scale (thermopile and optical)
	Accuracy	
	Digital Display	±1.0% of reading ±2 LSD
	Analog Meter	±3.0%
	Analog Out	±1.0%
System	Display unit + sensor accuracy	
Temperature		
Operating	5°C to 40°C (41°F to 104°F)	
Storage	-20°C to 70°C (-4°F to 158°F)	
Relative Humidity		
Operating	0 to 90%	
Storage	0 to 95%	
Altitude		
Operating	-100 to 2,000 m	
Storage	-100 to 4,000 m	
<b>Measures</b>	Power	W
<b>Controls &amp; Connections</b>	Front Panel	
	PWR	Toggle power
	ZERO	Ambient offset
	AUTO	Engage auto-ranging
	λ	Enter wavelength compensation
	ARROW KEYS	Manually control range Select and change numerical values
	Left Side Panel	Power jack connector, analog output, DB-25 smart probe connector
Part Number	1067353	



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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 FieldMate systems. For full details of this warranty coverage, please refer to the Service and Support section at [www.Coherent.com](http://www.Coherent.com) or contact your local Sales and Service Representative.

Registered to  
ISO 9001:2000

