



# 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.

