



FieldMate

- Analog needle for tuning
- Large digital LCD display
- Compatible with thermopile and optical sensors
- Wavelength compensation
- Analog output
- Compact and portable
- AC and battery power
- Auto ranging



Description

FieldMate combines a digital display and analog meter with sophisticated digital processing to enable rapid, sensitive laser adjustment. This meter also offers an economical way of measuring laser power when advanced data analysis is not necessary.

FieldMate will be delivered with two alkaline 9V batteries, power cord, AC power adapter, RCA-to-BNC analog output adapter, and certificate of calibration.

Characteristics

Parameter		Values	Unit
Power Resolution		0.1% of full-scale for all ranges in the 105 scale 0.3% of full-scale for all ranges in the 35 scale	
Measurement Range		Sensor dependent	
Accuracy	System	Meter accuracy + sensor accuracy	
	Analog meter	±3.0	%
	Analog Output	±1.0	%
Calibration Uncertainty (k=2)		±1.0	5
Power Sampling Rate		20 (thermopile and optical)	Hz
Display		26x89 mm, custom fixed-segment LCD	
Analog Needle	Scale	0 to 10 (100 divisions), 0 to 3 (60 divisions)	
	Response	80 ms time constant	
Analog Output	Voltage	0 to 2	VDC
	Update Rate	20	times/sec.
Temperature	Operating Range	5 – 40	°C
	Storage Range	-20 – 70	
Instrument Power		100 – 240 (50/60 Hz)	VAC
Instrument Batteries		Two 9V alkaline batteries	
Compliance		CE, RoHS, WEEE, ISO 17025	



Parameter		Values	Unit
Dimensions (H x W x D)		193 x 117 x 46	mm
Weight		0.8	kg
Front Panel	PWR	Toggle power switch and backlight	
	ZERO	Reset ambient offset for thermal and optical sensors	
	AUTO	Engage auto-ranging with power sensors	
	λ	Enter wavelength and engage wavelength compensation	
	ARROW KEYS	Manually control range; Select and change numerical values	
Left Side Panels		Power jack Analog output DB-25 sensor port	

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