

FieldMax Touch

Laser Power and Energy Meters

The Coherent FieldMax Touch is a compact, rugged, and easy-to-use laser power and energy meter, designed for portability without compromising performance. It supports a wide range of Coherent laser sensors—enabling accurate measurements across power and energy ranges from nanowatts to kilowatts and from nanojoules to hundreds of joules. The 5-inch color touchscreen offers a user-friendly interface for configuring settings and accessing real-time analysis with just a few taps.

The standard FieldMax Touch provides sampling up to 10 Hz with thermopile, optical, and PowerMax-Pro sensors. For more advanced energy measurements, the FieldMax Touch Pro adds pyroelectric sensor support and captures every pulse at repetition rates up to 1 kHz.

FieldMax Touch balances performance and simplicity, delivering quick laser measurements and intuitive tools—statistics, beam position, and USB data logging—in a compact, rugged design for everyday use in the lab, factory, or field.



FEATURES

- Compatible with thermopile, optical, pyroelectric, and PowerMax-Pro sensors
- 1000 Hz pulse capture with pyroelectric sensors (FieldMax Touch Pro)
- 5" color capacitive touchscreen with LED backlight
- USB 2.0 and Ethernet PC interfaces
- USB flash drive support for log export and firmware updates
- Analog output and external trigger input
- Compatible with Coherent Meter Connection software
- Windows 11 compatible (32- and 64-bit)
- Rugged design with screen protector, anti-slip grip and shock protection
- ISO 17025 calibration accredited

APPLICATIONS

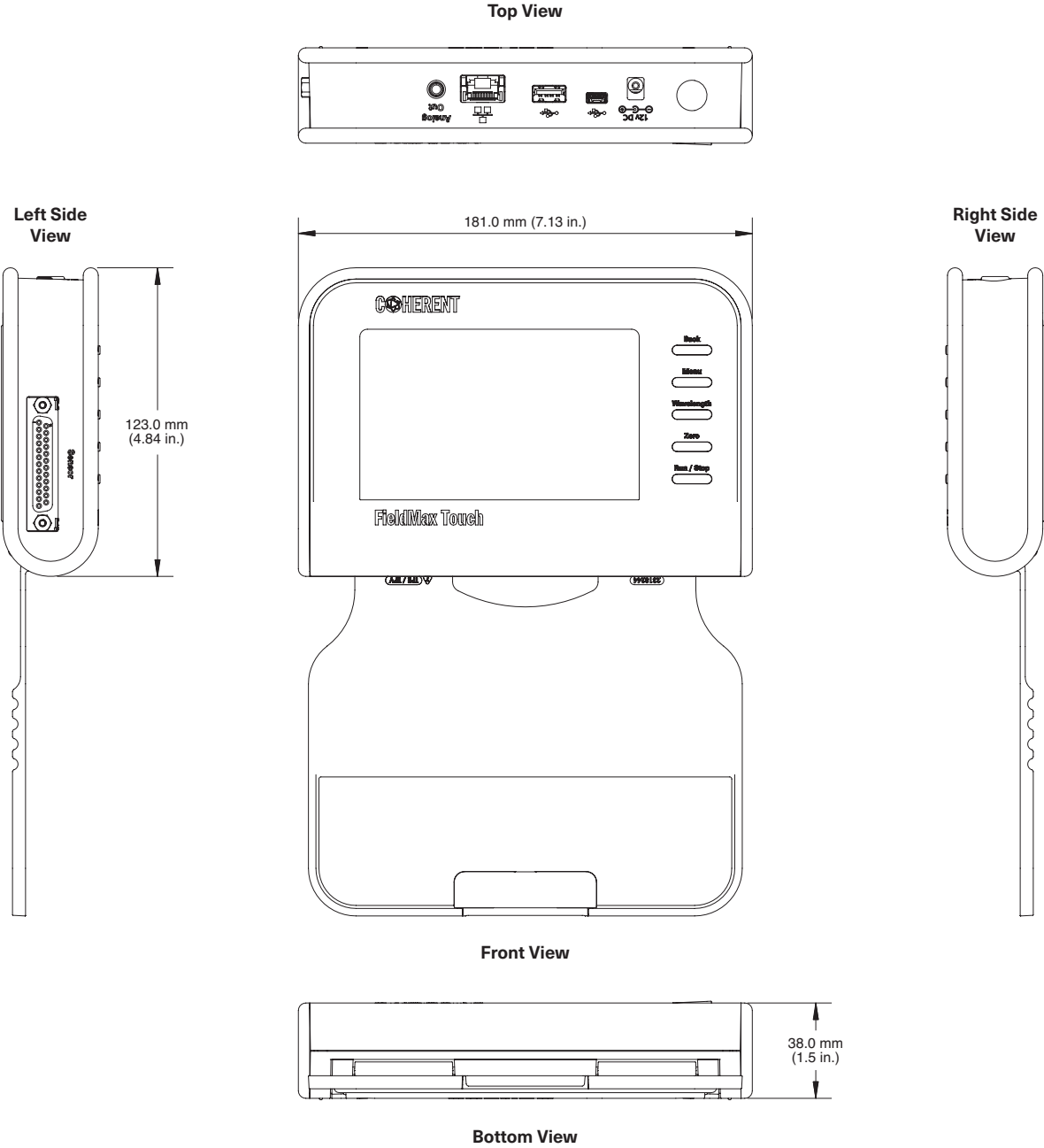
- R&D and Laboratory Use
- Scientific Measurement
- Industrial and Manufacturing QA
- Field Service Diagnostic



Specifications	FieldMax Touch	FieldMax Touch Pro
Sensor Compatibility	Thermopile, Optical and Transverse Thermoelectric	Thermopile, Optical, Pyroelectric, and Transverse Thermoelectric
Measurement Range	1 μ W to 30 kW, 100 nW resolution (thermopiles); 100 pW to 5 W, 10 pW resolution (optical); 10 nJ to 100 J, 1 nJ resolution (pyroelectric); 1 mW to 3 kW, 100 μ W resolution (transverse thermoelectric)	
Display Resolution	3 to 5 digits (user selectable)	
Meter Accuracy (%)	± 1	
System Accuracy	Meter accuracy + sensor accuracy	
Calibration Uncertainty (%)	± 1	
Channel Sampling Rate (Hz) – Thermopile	10	
Channel Sampling Rate (Hz) – Optical	10	
Laser Rep Rate (Hz) – Pyroelectric	N/A	1000
Channel Sampling Rate (Hz) – PowerMax Pro	10	
Analog Output (VDC)	0.02 to 1, 2, or 4 (selectable)	
Analog Output Resolution (mV)	0.1	
Analog Output Accuracy (%)	± 0.04 (25% to full scale), ± 0.26 (5%–25%), ± 1 (<5%)	
Analog Output Update Rate (Hz)	10	500
Measurement Analysis	Tuning, data logging to flash drive, statistics (min., max., mean, range, std. dev.)	FieldsMax Touch features + pulse energy measurements to 1 kHz
Display	800 x 480 pixel color TFT LCD, 5" touchscreen	
Computer Interface	Ethernet, USB	
Pulse Triggering	Internal and External	
Battery Operating Temperature Range	0 to 40°C (0 to 95% RH, non-condensing)	
Power Adapter Operating Temperature Range	0 to 50°C (0 to 95% RH, non-condensing)	
Storage Temperature Range	-20 to 60°C (0 to 95% RH, non-condensing)	
Instrument Power (external supply)	90 to 260 VAC, 50/60 Hz	
Compliance	CE, RoHS, WEEE, ISO 17025	
Dimensions	18.1 x 12.3 x 3.8 cm	
Weight	771 g (1.70 lbs)	
Top Panel	Power switch, 12 VDC input, Mini USB, Type A USB, RJ-45 Ethernet, Analog Out (3.5 mm), Trigger In (3.5 mm)	
Left Panel	DB-25 Sensor Port	
Part Number	2339785	2339784

Mechanical Specifications

FieldMax Touch



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FieldMax Touch Pro

