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FieldMaxII-TO

- Measure energy of pulsed lasers up to 300 pps
- Large, backlight LCD display
- Compatible with thermopile and optical (power only)
- Simulated analog-like movement for laser tuning
- USB interface with FieldMaxII PC applications software, LabVIEW instrument driver and ActiveX control
- XP/Vista (32-bit) and Windows 7 (32-bit and 64-bit) compatible
- Area function for density measurements (J/cm2 or W/cm2)

Description

FieldMaxII is an affordable, versatile, easy-to-use digital power and energy meter platform designed for a variety of applications ranging from field service to production test applications.
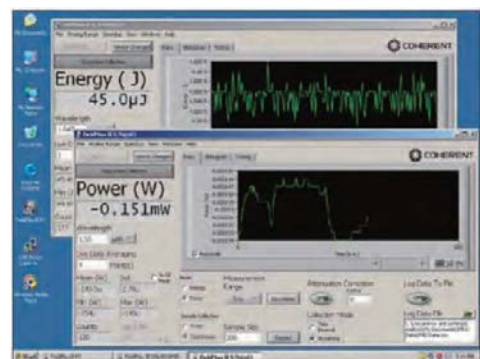
FieldMaxII features a large, easy-to-read backlit LCD and an intuitive user interface offering button-driven control for simple operation. The meter supports onboard analysis of mean, min., max., and standard deviation statistics. It can measure power from nW to kW, and pulse energy from nJ to J at up to 300 pps. In addition, long-pulse Joules energy measurements can be made on the **FieldMaxII-TOP** model when using thermopiles.

The meter includes a USB PC interface as well as an analog output. The **FieldMaxII PC** applications software supports trend charting, tuning, statistics, and logging data to a file. A LabVIEW instrument driver with ActiveX control is provided to support custom software developments.

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

FieldMaxII PC Application

- USB PC Interface
- FieldMaxII PC is completely open-source so that you can use it to help develop your own customized applications
- Multiple meters can be run on a single PC – useful for final test and burn-in applications
- Meters can be operated remotely via host interface and included drivers
- Software features:
  - Measure, Tune, Trend displays
  - Statistics
- LabVIEW instrument driver and ActiveX DLL server included

Characteristics

Parameter		Values	Unit
Function		Power	
Measurement Resolution		0.1% of full-scale	
Measurement Range		Sensor dependent	
Accuracy	System	Meter accuracy + sensor accuracy	
	Analog Output	±1.0	%
Calibration Uncertainty (k=2)		±1.0	5
Power Sampling Rate		10	Hz
Display		58x73 mm, fixed-segment LCD with backlight	
Digital Tuning Indicator		100 msec time constant	
Statistics		Mean, max., min., standard deviation	
PC Interface		USB 1.1	
Analog Output		0 to 1, 2 or 5 (selectable)	VDC
Temperature	Operating Range	5 – 40	°C
	Storage Range	-20 – 70	
Instrument Power		100 – 240 (50/60 Hz)	VAC
Instrument Batteries		Rechargeable NiMH battery pack	
Compliance		CE, RoHS, WEEE, ISO 17025	
Dimensions (H x W x D)		200 x 100 x 40	mm
Weight		1.0	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	
	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	W/cm² (power density)	
	HOLD	Holds displayed values on screen	
	SETUP / LOCAL	Set and enter button / Takes local control of meter back from PC	
	ARROW KEYS	Manually control range; Select Stats parameter; Select change numerical values	
Left Side Panels		Power jack USB PC Interface port Analog output	
Right Side Panels		DB-25 sensor port	