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

- Front View
- Side View

FieldMaxII-TO & -P

- Front View
- Side View

Superior Reliability & Performance
FieldMax™II Family
Laser Power and Energy Meters

Device Specifications

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

Controls & Connections

Front Panel
- PWR: Toggle power switch and backlight
- Hz: Display repetition rate
- J/W: Select joules or watts mode
- 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)
- HLD: Holds displayed values on screen
- TRIG: 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

Ride 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 or contact your local Sales or Service representative.