



Model FI7000 Probe Interface




The FI7000 interface provides both power to and communication with the FL/PL 7000 series probes. A low-level loop back fiber optic connection is used to sense unexpected disconnect of laser driven fibers to ensure user-safe operation. As an additional safety measure, shuttered connectors are used on all fiber optic connections to and from the probe.

The FI7000 can be used with the FM7004 Field Monitor (using the provided 0.3 meter fiber optic cable) or a PC by direct communication using the USB, GPIB, or RS-232 interfaces.

SPECIFICATIONS

Interfaces.....	IEEE-488 (GPIB) USB 2.0, Test and Measurement class RS-232 (19200 Baud) Fiber Optic Serial (19200 Baud) reserved for connection to FM7004 Field Monitor Laser Fiber Optic Serial reserved for connection to one FL/PL 7000 series probe
Fiber Optic Connectors	(2) E2000 compact duplex female for probe communication and safety fiber loop (2) FSMA for fiber connection to FM7004
Laser	500 mW, 850 nm
Laser shutdown time	< 1 msec after fiber disconnect < 250 msec after loss of communication
Power Requirements	
Input Voltage	90-260 VAC, 50-60 Hz
Input Current	0.2 - 0.6 A
Input type	IEC inlet with filter
Enclosure.....	Desktop case, 2U high; 1U blank panel installed.
Dimensions (WxHxD)	
without enclosure	48.3 x 4.5 x 25.4 cm (19.0 x 1.75 x 10.0 in)
with enclosure	49.8 x 12.7 x 30.5 cm (19.6 x 5.0 x 12.0 in)
Weight	
without enclosure	2.5 kg (6.25 lb)
with enclosure	7.25 kg (16 lb)
Operating Temperature Range	10°C to 40°C (50°F to 104°F) @ 5% to 95% RH non-condensing

Model	Description
FI7000	Housed in a 2U instrument case
FI7000M1	Rack mount (Instrument case removed)



CLASS 1
LASER PRODUCT
IEC 60825-1, AM2: 2001

**Complies with 21CFR 1040.10 and 1040.11
except for deviations pursuant
to Laser Notice # 50,
dated July 26, 2001**