

FI7000 Probe Interface

Features

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 FM7004A Field Monitor (using the provided 0.5 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 FM7004A 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 FM7004A

Laser: 500 mW, 830 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)



Complies with 21CFR 1040.10 and 1040.11 except for deviations pursuant to Laser Notice # 50, dated June 24, 2007

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