Features

- Three input channels
- 1mm indium-gallium-arsenide (InGaAs) photodetectors
- 850nm, 980nm, 1300nm, 1480nm, 1550nm, and 1625nm N.I.S.T. traceable calibration wavelengths
- Logarithmic dB/dBm and linear Watt (mW, µW, nW) units
- ±0.25dB absolute accuracy at calibration conditions*
- 0.001 dB/nW measurement resolution;
 0.01dBm resolution
- Optical power meters can be operated independently via the GPIB/IEEE-488 compliant RIFOCS 700R system controller
- Space efficient—up to 11 optical power meter modules and one system controller can be installed in a 19-inch rack
- Snap-On Connector (SOC) interfaces adapt to all industry standard fiber optic connectors and other less common types
- **Finder** button—quickly addresses selected

Key Specifications

Calibration wavelengths

Calibration traceability

Power range

Absolute accuracy

Resolution

Stability

1mm InGaAs

850, 980, 1300, 1480, 1550, and 1625nm

U.S. N.I.S.T.

+3 to -80dBm

±0.25dB

0.001dB/nW, 0.01dBm

< ±0.05dB within operating temp. range

Applications

Optical Power Measurements

The triple channel 773R optical power meter is based on proven 1mm indium-gallium-arsenide (InGaAs) photodetectors specially manufactured for RIFOCS Corp. Offering a measurement resolution of 0.001 for logarithmic dB and linear nanowatt (nW) units, the 773R optical power meter can capture the slightest attenuation changes, making it ideal for dense wave-division multiplexing (DWDM) component qualification and other demanding fiber optic measurements.

The 773R optical power meter can measure power levels between +3 and -80dBm, well within the dynamic range of typical fiber optic systems.

Manual operation of the 773R optical power meter, via the 700R controller module, is simple and intuitive. Measurement data, calibrated wavelengths, and other information is easily read on the large, backlit LCD display of the latter unit. Operators can quickly select calibrated wavelengths and measurement modes using the six ergonomically designed, multi-function buttons on the controller. A *Finder* button on each 770R Series optical power meter, and other 700 Series instruments, makes module selection easy and convenient.

A GPIB/IEEE-488 interface incorporated in the 700R controller module enables the 773R optical power meter to be operated from a remote terminal using basic commands. Operation of the 773R optical power meter can also be automated using *fiber*WORKSTM application software by RIFOCS Corp.

Efficient design and engineering are the hallmarks that have made RIFOCS an industry leader in the field of fiber optic instrumentation. The compact design of the 773R optical power meter, and others in the series, permits up to 11 of the units to be installed in a standard 19-inch rack with a 700R controller module.

^{*} N.I.S.T. traceable calibration wavelengths only.

Ordering Information

Three Snap-On Connector (SOC) adapters are included with the 773R optical power meter. Please specify the desired connector adapter types when ordering using the SOC Adapter Table, below. Additional SOC adapters may also be ordered separately.

Part No.	Description
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773R Optical power meter module

SOC Adapter Table

Part No.	Description
1001	Blank
1010	DIN 47256
1020	NTT/FC-PC
1030	AT&T/ST-PC
1038	MIL-T-29504 optical termini
1040	HMS-10 (2.5mm)
1047	Mini-BNC
1050	Diamond HMS-0 (3.5mm)
1057	Stratos 430/Holtek 38000
1062	NTT/SC-PC
1081	Radiall VFO
1086	Diamond HMS-10A (SMA-2.5)
1087	SMA-905/906
10E0	Radiall EC
10E2	Diamond E-2000
10TB	Simplex TOSLINK/Spectran J-pin
10TD	TR/TX set, duplex TOSLINK/Spectran J-pin
10TR	Duplex TOSLINK TX
10TX	Duplex TOSLINK TR
10ZP	H-P Versalink/Spectran V/Z-pin

Specifications¹

Settling time, auto-range free

Subject to change without notice

Number of channels Three (3)

1mm indium-gallium-arsenide (InGaAs) **Detector type**

Primary calibration wavelengths 850nm, 980nm, 1300nm, 1480nm, 1550nm, **1625nm**

Power range

Linearity: ±0.5dB ±0.05dB ±0.5dB

Absolute accuracy alibration conditions for all N.I.S.T. traceable wavelengths

0.5 seconds

0.02dB from 10°C to 35°C, < ± 0.05 dB within operating temperature range Stability

01 dB/nW, 0.01dBm Resolution

dark to maximum power

Readings per second (remo 10 per second, typical

Measurement mode Relative logarithmic dB, absolute logarithmic dBm, absolute linear Watt (mW, µW, nW)

Optical connector Snap-On Connector (SOC) interface

0°C to +50°C

Storage temp -15°C to +70°C 0 to 95% RH, non-condensing

Weigh 400g (14 oz.)

12.9 x 3 x 26.2 cm (5 x 1.17 x 10.22 in), one slot in RIFOCS 700 Series rack **Dimensions**

1340 Flynn Rd. Camarillo, CA 93012 Phone: (805) 389-9800 Fax: (805) 389-9808 http://www.rifocs.com

¹ Within specified ambient environment of +20°C to +25°C.