700 Series

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772RH
Dual High Intensity Optical Power Meter

Features

- Dual input channels
- 2mm indium-gallium-arsenide (InGaAs) photodetectors
- 980nm, 1300nm, 1480nm, 1550nm, and 1625nm N.I.S.T. traceable calibration wave lengths
- +27 to -60dBm measurement range
- Logarithmic dB/dBm and linear Watt (mW, µW, nW) units
- ±0.25dB absolute accuracy at calibration conditions*
- 0.001dB/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

* N.I.S.T. traceable calibration wavelengths only.

Key Specifications

Detector type	2mm InGaAs
Calibration wavelengths	980, 1300, 1480, 1550, and 1625nm
Calibration traceability	U.S. N.I.S.T.
Power range	+27 to -60dBm
Absolute accuracy	±0.25dB
Resolution	0.001dB/nW, 0.01dBm
Stability	< ±0.05dB within operating temp. range

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Applications

Optical Power Measurements

The dual channel 772RH optical power meter is based on proven 2mm indium-gallium-arsenide (InGaAs) photodetectors specially manufactured for RIFOCS Corp. Offering an extended measurement range, from +27dBm to -60dBm, the 772RH optical power meter is ideal for testing high output devices such as EDFA amplifiers and pump lasers. The 772RH optical power meter also provides a measurement resolution of 0.001 for logarithmic dB and linear nanowatt (nW) units.

Manual operation of the 772RH 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 772RH optical power meter to be operated from a remote terminal using basic commands. Operation of the 772RH optical power meter can also be automated using ***fiber***WORKS™ 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 772RH 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.

RIFOCS Corporation
Fiber Optic Instruments & Components

NIST, ISO, IEC, ANSI, NCSL, MIL-STD by www.raeservices.com

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Ordering Information

Two Snap-On Connector (SOC) adapters are included with the 772RH 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
772RH	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

Specifications[1]

Subject to change without notice

Number of channels	Two (2)
Detector type	2mm indium-gallium-arsenide (InGaAs)
Calibration wavelengths	980nm, 1300nm, 1480nm, 1550nm, 1625nm
Power range	+27 to -60dBm
Linearity:	
±0.5dB	> -40dBm
±0.05dB	+5dBm to -40dBm
±0.1dB	+18dBm to +5dBm
±0.5dB	+27dBm to +18dBm
Absolute accuracy	±0.25dB at calibration conditions for all N.I.S.T. traceable wavelengths
Stability	< ±0.02dB from 10°C to 35°C, < ±0.05dB within operating temperature range
Resolution	0.001dB/nW, 0.01dBm
Settling time, auto-range from dark to maximum power	0.5 seconds
Readings per second (remote mode)	10 per second, typical
Measurement modes	Relative logarithmic dB, absolute logarithmic dBm, absolute linear Watt (mW, µW, nW)
Optical connector interface	Snap-On Connector (SOC) interface
Environmental:	
Operating temp.	0°C to +50°C
Storage temp.	-15°C to +70°C
Humidity	0 to 95% RH, non-condensing
Weight	400g (14 oz.)
Dimensions	12.9 x 3 x 26.2 cm (5 x 1.17 x 10.22 in), one slot in RIFOCS 700 Series rack

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

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