To receive a calibration and/or repair quote-RMA from R.A.E. Services Inc. Click here>> www.raeservices.com/services/quote-htm 773RH Click here>> www.raeservices.com/services/quote.htm Intensity Optical Power Meter

Features

- Three 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*
- 0.001 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



Calibration wavelengths

Calibration traceability

Power range

Absolute accuracy

Resolution

Stability

2mm InGaAs

980, 1300, 1480, 1550 and 1625nm

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

+27 to -60dBm

±0.25dB

0.001dB/nW. 0.01dBm

 $< \pm 0.05$ dB within operating temp. range

Applications

Optical Power Measurements

The triple channel 773RH 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 773RH is ideal for testing high output devices, such as ÈDFA amplifiers and pump lasers. The 773RH optical power meter also provides a measurement resolution of 0.001 for logarithmic dB and linear nanowatt (nW) units.

Manual operation of the 773RH 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 773RH optical power meter to be operated from a remote terminal using basic commands. Operation of the 773RH 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 773RH 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 773RH 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.

ription

773RH 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

Subject to change without notice

Number of channels Three (3)

2mm indium-gallium-arsenide (InGaAs) Detector type

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

Power range

Linearity: ±0.5dB ±0.05dB ±0.1dB ±0.5dB

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

Stability .02dB from 10°C to 35°C, < ±0.05dB within operating temperature range

Resolution .001 dB/nW, 0.01dBm

Settling time, auto-range from 0.5 seconds dark to maximum power

Readings per sego 10 per second, typical

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

Snap-On Connector (SOC) interface

0°C to +50°C

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

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.