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700 Series

7REM-10/MTP

10mm Ribbon Connector Remote Head

Features

- Convenient Snap-On Adapter makes mating different connector styles fast and easy
- Designed for multimode ribbon connector applications
- Optimized for standard MTP US Conec ribbon connectors; Methode MP and AMP MPX terminations available on request
- 10mm large area detector captures light from all multimode 12 and 24 fiber ribbon cables (based on standard MT ferrule)
- 850nm, 1310nm and 1550nm calibration wavelengths
- Logarithmic dB/dBm and linear Watt (mW/μW/nW) units
- Must be used with 771R-REM optical power meter module with BNC interface
- Standard mounting holes make for efficient optic table mounting



Key Specifications

Detector type	10mm InGaAs
Calibration wavelengths	850, 1310 and 1550nm
Calibration traceability	U.S. N.I.S.T.
Measurement range	+3 to -45dBm
Absolute accuracy*	±0.25dB
Linearity: 0dBm to -40dBm	0.05dB
Connector interface	See table on back side

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

Applications

Optical Power Measurements

The 7REM-10/MTP (10mm) remote detector head units are specially designed for insertion loss measurements on fiber optic ribbon cables terminated with standard MTP connectors, and are used with a 771R-REM optical power meter module. The 7REM-10/MTP can also be used to measure the output power of transmitters incorporating ribbon fiber.

The 10mm detector of the 7REM-10/MTP is intended for measurements on multimode ribbon cables. The large surface area of the detector enables light emitted by the outer fibers of 12 and 24 fiber ribbon cable to be captured for maximum measurement accuracy and repeatability (FOTP-171 compliant).

The 7REM-10/MTP detector heads are connected to the 771R-REM optical power meter via a triaxial cable using a BNC interface. The calibration factors and other functions reside in the 771R-REM optical power meter module, and are matched to the type of 7REM Series remote head being used.

Standard 7REM-10/MTP remote detector heads are designed for use with MTP connectors manufactured by US Conec. Adapters for MTP and other connector types are available upon request, see reverse side for a complete list.

RIFOCS Corporation
Fiber Optic Instruments & Components

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

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700 Series

7REM-10/MTP

10mm Ribbon Connector Remote Head

Ordering Information

The 7REM-10/MTP remote head functions as a unit with the 771R-REM optical power meter module, and must be ordered at the same time to facilitate calibration. To order, include 771R-REM for the optical power meter module with the 7REM-10/MTP and add the optional adapters 7RH-xx.

Part No.	Description
7REM-10/MTP	10mm remote head unit with US Conec MTP interface
771R-REM	Optical power meter module with BNC interface
7RH- XX	Remote head adapters

10mm remote heads designed for MT ferrule based ribbon connectors. For other availalble adapter types please see the table below.

Available Adapter Types

7RH-1.25, generic 1.25mm Ferrule
7RH-2.5, generic 2.5mm Ferrule

SIMPLEX:
- 7RH-FC
- 7RH-LC
- 7RH-SC
- 7RH-ST

RIBBON:
- 7RH-SMC
- 7RH-MPX
- 7RH-MTP
- 7RH-OGI

DUPLEX:
- 7RH-MTRJ

MTP is a registered trademark of US Conec
MPX is a registered trademark of TYCO/AMP

Specifications[1]

Subject to change without notice

7REM-5/MTP Remote Head

Detector type	5mm InGaAs
Calibration wavelengths	850, 1310 and 1550nm
Wavelength dependency:	
820nm to 880nm	0.03dB/nm
1270nm to 1330nm	0.003dB/nm
1520nm to 1580nm	0.002dB/nm
Calibration traceability	U.S. N.I.S.T.
Measurement range	+3 to -45dBm
Absolute accuracy[1, 3, 4]	±0.25dB
Linearity[2, 3]:	
±0.05dB	-3dBm to -45dBm
±0.5dB	+3dBm to -3dBm
Stability[2, 3]:	
+3dBm to -35dBm	< ±0.02dB
< -35dBm	< ±0.05dB
Resolution	Log: 0.001dB Linear: 0.001nW/μW/mW
Readings per second (remote mode)	10 (typical)
Connector interface	Bulkhead adapter on generic adapter plate

1 Within specified ambient environment of +20°C to +25°C.
2 At constant temperature (delta T = ±1°C).
3 After meter zero at measurement temperature.
4 Power level -10dBm, continuous wave, at calibration wavelength.



771R-REM Optical Power Meter Module

Connector interface	Triaxial BNC
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

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