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Detailed System Specifications

Model FOS 860A Test Receiver System

The following technical specifications apply to a properly operating FOS 860A Test Receiver System Product after a 15 minute warm-up period used with either 1310 nm or 1550 nm optical sources.

Front Panel Controls and Indicators

Status/Control Display	(2) Line, 48 character, LCD with LED back light
Display/Status Mode Selection	
mW/dbM	Front Panel SPST Push-button Switch
Wavelength	Front Panel SPST Push-button Switch
Relative/Absolute	Front Panel SPST Push-button Switch
Number of Channels	Three section BCD Push-button Switch
Display/Status Modes	
Wavelength	1310 nm, 1550 nm +/- 20 nm
Mode	Absolute, Relative
Optical Power	mW, dBmW
RF Power	Estimated Carrier Power in dBmV; +/- 2 dB
OMI per Channel	Measured in percent
OMI Total	Measured in per cent
Internal Optical Input	FC/APC, accessible through the front panel
Front Panel Optical Input Adapter	SC/APC Standard, (Specify at time of Order)
Optical Input Threshold, Typical	-2 dBmW Optical, 85 Channels, 1 % OMI
Optical Input Nominal	0 dBmW
Optical Input Maximum	+3 dBmW Optical
OMI Reading Accuracy	+/- 10 % of the OMI Reading, +/- 0.2 %
RF Output Connector	75 Ohm BNC
RF Output Return Loss	> 15 dB; 15 MHz to 860 MHz
RF Output Level, above Threshold	-2 dBmW Total RF Power; No Attenuation
RF Output Correlated Noise	< -95 dBmW; at RF Output
Output RF Frequency Range	15 MHz to 890 MHz
Output RF Flatness, Typical	+/- 0.75 dB; from 15 MHz to 860 MHz
Internal Attenuator Range	0 to 44 dB in 2 dB steps
Internal Attenuator Accuracy	+/- 0.25 dB, from 15 MHz to 860 MHz
Internal Attenuator Flatness	+/- 0.25 dB, from 15 MHz to 860 MHz
RF Output Distortion Performance, CSO, CTB	better than -70 dBc
Optical Receiver Equivalent Noise Input	< 8 pA per root Hz; 15 MHz to 860 MHz

Note! Optical Input Threshold is the point at which output level control occurs with 1 % OMI, based on 85 Channel loading. Below this point, all internal attenuation is minimum and total output power specified will not be achieved.

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Specifications (cont.)

Rear Panel Controls/Indicators

AC Power Input and Fuse	110/220 Volts AC (IEC Connector)
Power ON/OFF	SPST Toggle Switch

Electrical Specifications

AC Power Requirements	110V/220V, 50/60 Hz, < 25 Watts Total (85 to 250 Volts)
Rear Panel Fuse	1.0 A, 250V, slo-blo

DC Volts Required

+5 Volts	< 500 mAmps
+15 Volts	< 400 mAmps
+24 Volts	< 550 mAmps

Mechanical/Environmental Specifications

Overall Dimensions	10" D x 8" W x 4.75" H excluding handle
Temperature Range (no damage)	-20 to +60 degrees C
Operating Temperature Range	0 to +50 degrees C

Options and Accessories

Optical Input Adapters	All Standard Types Supported
Accessory Adapter Kit	
Remote Interface	Must Specify at Time of Order
Baud Rates, and port controls	8 bits (programmed internally)
Serial Port (1)	RS232 or RS485 DB-9 Male
Serial Port (2)	RS485 DB-9 Female

In the interest of continued product improvement, these specifications are subject to change without notice.

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