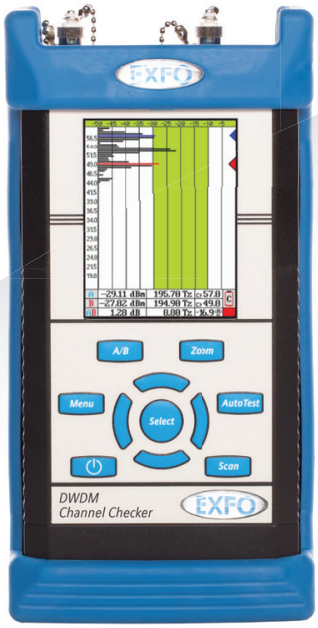
FOT-5205

DWDM CHANNEL CHECKER



SPEC SHEET

Handheld channel checker to monitor presence of DWDM channels and measure their power

KEY FEATURES

- Supports 50 GHz and 100 GHz DWDM spacings
- Ideal for cable operators
- Spectral range covering all Remote PHY wavelengths
- Detects low power signals—perfect for measurements through monitor ports
- Fast < 0.5 second measurement
- Bar graph and table display
- Pass/fail thresholds
- Rugged design

EXFO

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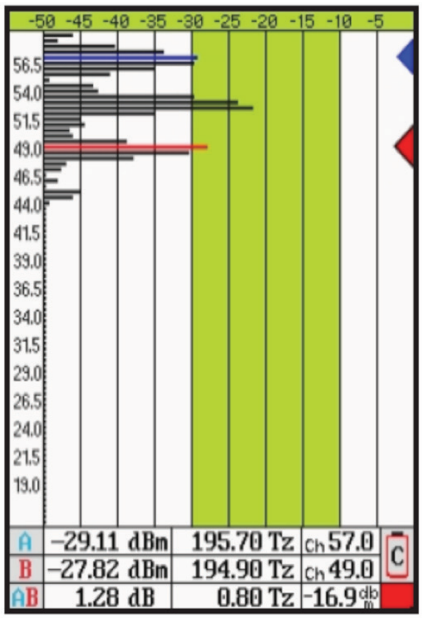
IDEAL FOR CABLE OPERATORS' REMOTE PHY DEPLOYMENTS

For cable operators, Remote PHY is the next major network architecture change and involves bringing fiber much deeper into the network—that is, closer to the end user. Remote PHY also triggers the evolution from analog optics to digital optics, featuring Dense Wavelength Division Multiplexing (DWDM) for increased capacity.

The FOT-5205 meets the testing needs of Remote PHY deployments, in terms of spectral range, power range and channel spacing. It is the ideal tool for successful network commissioning and effective troubleshooting.

BAR GRAPH AND TABLE DISPLAY

The FOT-5205 DWDM channel checker offers two main modes for displaying results: a bar graph and a table display, both showing the power level of each channel. The channel number displayed is based on the ITU-T grid channel numbering.



Bar graph

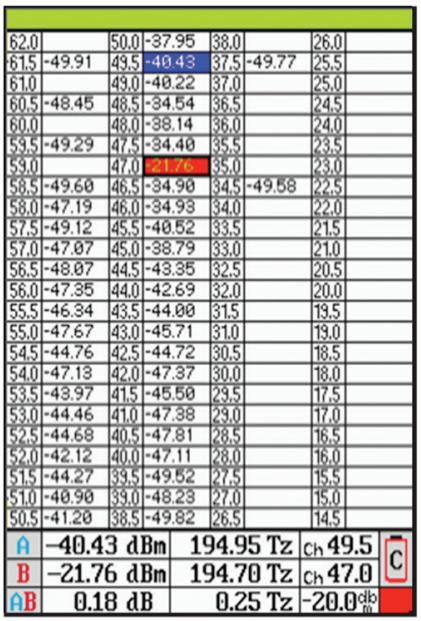


Table display

FAST MEASUREMENT TIME

EXFO understands that field technicians want to get the job done the first time—and quickly. The FOT-5205 boasts a measurement time of less than 0.5 seconds, one of the fastest in the industry.

WORKS THROUGH MONITOR PORTS (TAPS)

Unlike some competing products, EXFO's FOT-5205 is sensitive enough to detect low power signals, down to -48 dBm. This feature is especially important when measuring through monitor ports (also called taps) because these reduce the signal power by approximately 20 dB.

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SPECIFICATIONS [a]

SPECTRAL MEASUREMENT

Wavelength range	1527.99 - 1565.90 nm (196.20 - 191.45 THz)
Channel spacing	DWDM 50 GHz and 100 GHz
Wavelength uncertainty (nm)	±0.1

POWER MEASUREMENT

Dynamic range per channel (dBm)	+10 to −48
Maximum total safe power (dBm)	+28
Absolute power uncertainty (dB)	±1

OPTICAL MEASUREMENT

Optical rejection ratio at 0.4 nm (50 GHz) (dB)	40
PDL (dB)	±0.3
ORL (dB)	> 35
Measurement time (s)	< 0.5

GENERAL SPECIFICATIONS

Temperature	operating storage	−10 °C to 50 °C (32 °F to 120 °F) −20 °C to 50 °C (−4 °F to 120 °F)
Connectors		Interchangeable SC and FC fiber adapters. Choice of UPC or APC model.
Size (H x W x D)		194 mm x 99 mm x 40 mm (7 $^{5}/_{8}$ in x 3 $^{7}/_{8}$ in x 1 $^{1}/_{2}$ in)
Weight		0.72 kg (1.6 lb)
Battery		Rechargeable NiMH - 4 hours operating time
Power supply		100-240 universal US, GB, EU, AU mains

Note

a. Typical.

ORDERING INFORMATION

FOT-5205-XX

Model
FOT-5205 = DWDM channel checker

Connector adapter
UPC or APC

Example: FTB-5205-APC

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SPFOT5205.1AN

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