Optical Time Domain Reflectometer

POTDR-JW3302F

The 3302F series Optical Time Domain Reflectometer (OTDR) is an intelligent, new generation meter designed to detect, maintain and troubleshoot your fiber installations.

Features

- Integrated, rugged design
- IP65 protection level for outdoor usage
- 7 inch anti reflection LCD monitor
- PON online test module
- Multi language

Applications

- FTTx test, PON networks
- CATV networks
- Access networks
- LAN networks
- Metro networks

Specifications

Dimension	253×168×73.6mm 1.5kg (battery included)
Display	7 inch TFT-LCD with LED backlight (touch screen function is optional)
Interface	1×RJ45 port, 3×USB port (USB 2.0, Type A USB×2, Type B USB×1)
Power Supply	10V(dc), 100V(ac) to 240V(ac), 50~60Hz
Battery	7.4V(dc)/4.4Ah lithium battery (with air traffic certification) Operating time: 12 hours, Telcordia GR-196-CORE Charging time: <4 hours (power off)
Power Saving	Backlight off: Disable/1 to 99 minutes Auto shutdown: Disable/1 to 99 minutes
Data Storage	Internal memory: 4GB (about 40,000 groups of curves)
Language	User selectable (English, Simplified Chinese, traditional Chinese, French, Korean, Russian, Spanish and Portuguese-contact us for availability of others)
Environmental Conditions	Operating temperature and humidity: -10℃ ~+50℃ , ≤95% (non-condensation) Storage temperature and humidity: -20℃ ~+75℃ , ≤95% (non-condensation) Proof: IP65 (IEC60529)
Accessories	Standard: Main unit, power adapter, Lithium battery, FC adapter, USB cord, User guide, CD disk, carrying case Optional: SC/ST/LC adapter, Bare fiber adapter

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Technical parameters

Model	Testing MM: +/- 20nm SM: +/- 10nm	Dynamic (dB)	Event Dead-zone (m)	Attenuation Dead-zone (m)
PODTR-JW3302F-S1	1310/1550	32/30	1	8/8
PODTR-JW3302F-S2	1310/1550	37/35	1	8/8
PODTR-JW3302F-S3	1310/1550	42/40	0.8	8/8
PODTR-JW3302F-T1	1310/1490/1550	30/28/28	1.5	8/8/8
PODTR-JW3302F-T2	1310/1550/1625	30/28/28	1.5	8/8/8
PODTR-JW3302F-T3	1310/1490/1550	37/36/36	0.8	8/8/8
PODTR-JW3302F-T4	1310/1550/1625	37/36/36	0.8	8/8/8

Test parameters

Pulse width	Single mode: 5ns, 10ns, 20ns, 50ns, 100ns, 200ns, 500ns, 1µs, 2µs, 5µs, 10µs, 20µs
Testing distance	Single mode: 100m, 500m, 2km, 5km, 10km, 20km, 40km, 80km, 120km, 160km, 240km
Sampling resolution	Min. 5 cm.
Sampling point	Max. 128.000 points
Linearity	≤0.05dB/dB
Scale indication	X axis: 4m~70m/div, Y axis: Minimum 0.09dB/div
Distance resolution	0.01m
Distance accuracy	±(1m+measuring distance×3×10-5+sampling resolution) (excluding IOR uncertainty)
Reflectance accuracy	Single mode: ±2dB, multi-mode: ±4dB
IOR setting	1.4000~1.7000, 0.0001 step
Units	Km, miles, feet
OTDR trace format	Telcordia universal, SOR, issue 2 (SR-4731), OTDR: User selectable automatic or manual setup
Testing modes	Visual fault locator: Visible red light for fiber identification and troubleshooting Light source: Stabilized Light Source (CW, 270Hz, 1kHz, 2kHz output) Field microscope probe
Fiber event analysis	Reflective and non-reflective events: 0.01 to 1.99dB (0.01dB steps) Reflective: 0.01 to 32dB (0.01dB steps) Fiber end/break: 3 to 20dB (1dB steps)
Other function	Real time sweep: 1Hz Averaging modes: Timed (1 to 3600 sec.) Live Fiber detect: Verifies presence communication light in optical fiber Trace overlay and comparison

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Visual Fault Locator module

Wavelength (±20nm)	650nm
Power	10mW, CLASSIII B
Range	12 km.
Connector	FC/UPC
Launching mode	CW/2Hz

Power Meter module (optional)

Wavelength range (±20nm)	800~1700nm
Calibrated wavelength	850/1300/1310/1490/1550/1625/1650nm
Test range	Type A: -65~+5dBm (standard); Type B: -40~+23dBm (optional)
Resolution	0.01dB
Accuracy	±0.35dB±1nW
Modulation identification	270/1k/2kHz,Pinput≥-40dBm
Connector	FC/UPC

Laser Source module (optional)

Working wavelength (±20nm)	1310/1550/1625nm
Output power	Adjustable -25~0dBm
Accuracy	±0.5dB
Connector	FC/UPC

Fiber Microscope Module (optional)

Magnification	400x
Resolution	1.0μm
View of field	0.40×0.31mm
Storage/operational environment	-18℃ ~35℃
Dimension	235×95×30mm
Sensor	1/3 inch 2 million pixels
Weight	150 grams
USB	1.1/2.0
Adapter	SC-PC-F (For SC/PC adapter) FC-PC-F (For FC/PC adapter) LC-PC-F (For LC/PC adapter) 2.5PC-M (For 2.5mm connector, SC/PC, FC/PC, ST/PC)