

Optical reflectometer AQ7290

Description:

The AQ7290 Series Optical Time Domain Reflectometers (OTDRs) are designed for fast, accurate and reliable testing of optical fiber networks during installation, commissioning and maintenance. Combining a rugged field-ready design with advanced measurement capabilities, the AQ7290 Series delivers high dynamic range, excellent dead-zone performance and intuitive touchscreen operation.

The series includes six models optimized for various testing applications, from access and metro networks to long-haul transmission systems and live fiber maintenance. With support for PON testing, multi-wavelength measurements and long battery life, the AQ7290 Series provides an efficient solution for field technicians and network operators.

The large 8.4-inch capacitive multi-touch display, high-speed measurement engine and extensive storage capacity ensure maximum productivity during everyday fiber testing.

Features:

- High-performance OTDR series for installation, maintenance and troubleshooting of optical fiber networks
- Six models available for access, metro, long-haul and live fiber applications
- Dynamic range up to 47 dB
- Measurement distance up to 512 km
- Support for 1310 nm, 1550 nm, 1625 nm and 1650 nm wavelengths (depending on model)
- Excellent event and attenuation dead-zone performance
- PON network testing with split ratios up to 1:128
- Fast measurement with automatic event analysis
- 8.4-inch color TFT LCD capacitive multi-touch display
- Internal memory for up to 60,000 traces
- Expandable storage via microSD card (up to 2 TB)
- Up to 15 hours of battery operation
- USB-C Power Delivery charging
- USB-A, USB-C and optional Ethernet interfaces
- Lightweight and rugged field design
- Intuitive graphical user interface for easy operation

Standard equipment:

- AQ7290 Series OTDR
- Rechargeable lithium-ion battery
- AC power adapter
- USB-C charging cable
- Carrying strap
- Protective carrying case
- Quick Start Guide
- Calibration certificate

Optional equipment:

- Fiber optic launch/receive cables (or Launch/receive fiber rings)
- Launch/receive kits
- FC, SC, LC, ST adapters
- Connector cleaning kits
- Fiber inspection microscope (or Fiber inspection probe)
- Visual Fault Locator (VFL)
- Optical power meter and light source
- Optical fiber identifier
- Spare battery and charger
- USB flash drive / microSD card
- Hard carrying case and protective covers
- USB cable and optional Ethernet accessories
- Analysis and reporting software

Technical Specification:

Model	Num. of λ	Num. of port	Dynamic range (dB)				Features
			Port 1 (nm)			Port 2 (nm)	
			1310	1550	1625	1650	
AQ7292A	2	1	39	37			Short range model up to 70 km with communication service wavelength.
AQ7293A	2	1	43	42			Equipped with communication wavelengths and includes a splitter with no more than 128 branches Standard model ideal for networks
AQ7294A	2	1	47	47			High DR model equipped with communication wavelength and suitable for long distance measurement over 100 km.
AQ7293F	3	2	43	42		40*	2-port 3-wavelength model ideal for maintenance of working lines with 1650 nm with built-in optical filter.
AQ7293H	3	1	43	42	40		1-port 3-wavelength standard model with 1625 nm in addition to communication wavelength
AQ7294H	3	1	47	47	45		1-port 3-wavelength High DR model with 1625 nm in addition to communication wavelength

*A built-in cut filter to isolate from communication wavelengths included