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Yokogawa Test & Measurement Corporation Releases AQ1210 Optical Time Domain Reflectometer

–Improved operability and measurement performance–

Yokogawa Test & Measurement Corporation announces the February 27 release of the AQ1210 optical time domain reflectometer (OTDR), a successor to the AQ1200 OTDR that has been enhanced with the addition of touch screen functionality and a larger-capacity battery. The AQ1210 OTDR is a compact instrument that is well suited for handheld use in the field, and it can be used not only as an OTDR but also as a power meter or light source. As such, the AQ1210 OTDR is ideal for use in the installation and maintenance of fiber-optic cables.

Development Background

With the growing use of the Internet, smartphones, digital terrestrial TV, and other technologies and the anticipated rollout of 5G networks, there is a great demand for instruments such as OTDRs that can support the installation and maintenance of the fiber-optic networks needed for the high-speed transmission of large volumes of data. To help meet this need, Yokogawa has developed the AQ1210, a compact and easy to use OTDR with excellent operability, functions, and performance.

Product Features

1. Capacitive touch screen for intuitive ease of use

The AQ1210 is equipped with a 5.7-inch capacitive touch screen that offers excellent operability. It also comes with hard keys and a rotary dial that makes it easy to mark and shift OTDR waveform observation points.

2. Large-capacity battery

The AQ1210 has a large-capacity lithium-ion battery that delivers up to 10 hours of run time, enabling engineers to work a whole workday in locations where AC power sources are not readily available.

3. Improved functionality and performance

The AQ1210 OTDR can automatically characterize the fiber in passive optical networks (PON) that use high-port count optical splitters. A built-in smart mapper enables the operator to rapidly characterize fiber and generate easy-to-read reports with icons clearly highlighting events. A Wi-Fi or Ethernet dongle can be plugged into the USB port to enable remote file transfer and control.

List of models

Six models to meet various measurement needs

Model	Wavelength (nm)	Dynamic range (dB)	Application
AQ1210A	1310/1550	37/35	Installation of access systems (FTTA, FTTH, etc.)
AQ1215A	Same as above	42/40	High dynamic range model for installation of access systems (FTTA, FTTH, etc.)
AQ1210E	1310/1550, 1625	37/35, 35	Installation and maintenance of access systems (FTTH, etc.) and installation of WDM lines
AQ1215E	Same as above	42/40, 39	High dynamic range model for installation and maintenance of access systems (FTTH, etc.) and installation of WDM lines
AQ1215F	1310/1550, 1650	42/40, 37	High dynamic range model having a regular dynamic range at a maintenance wavelength (1650 nm) for installation and maintenance of access systems (FTTH, etc.)
AQ1216F	Same as above	42/40, 40	High dynamic range model having a superior dynamic range at a maintenance wavelength (1650 nm) for installation and maintenance of access systems (FTTH, etc.)

* For all models, functions as an optical power meter, visible light source, and automatic check of optical fiber end faces are available as options.

Major Target Markets

- Installation and maintenance of access networks such as FTTH, FTTB, and FTTA

Applications

- Evaluating the quality of fiber-optic cable installation and maintenance
- Characterizing losses and identifying failure locations in fiber-optic cables, etc.

For more information:

<https://tmi.yokogawa.com/solutions/products/optical-measuring-instruments/optical-time-domain-reflectometer/aq1210-mft-otdr-optical-time-domain-reflectometer/>

About Yokogawa

Founded in 1915, Yokogawa engages in broad-ranging activities in the areas of measurement, control, and information. The industrial automation business provides vital products, services, and solutions to a diverse range of process industries including oil, chemicals, natural gas, power, iron and steel, and pulp and paper. With the life innovation business, the company aims to radically improve productivity across the pharmaceutical and food industry value chains. The test & measurement, aviation, and other businesses continue to provide essential instruments and equipment with industry-leading precision and reliability. Yokogawa co-innovates with its customers through a global network of 113 companies spanning 61 countries, generating US\$3.8 billion in sales in FY2017. For more information, please visit www.yokogawa.com/.

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