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Yokogawa Test & Measurement Releases Light Source Module for AQ2200 Test System
–Ideal for use in testing and inspection of optical communication devices on production lines–

Yokogawa Test & Measurement Corporation announces that it has developed the AQ2200-112 light source module for the AQ2200 series multi-application test system and will release it on January 31. This new light source module features extremely high output level stability and is ideal for use on production lines in the testing and inspection of the optical fibers, optical connectors, optical isolators, and other components used in optical communication networks.

Development Background

Explosive growth in the use of the Internet, smartphones, and other devices and the increasing reliance on cloud-based services, digital terrestrial TV broadcasting, and the like is driving demand for optical fibers, optical connectors, passive optical components such as optical isolators, and other components used to construct optical communications networks. On the production lines where these optical components are manufactured, light sources with high output stability are required to evaluate their optical loss characteristics. To satisfy this need, Yokogawa has developed the AQ2200-112 light source module.

Product Features

1. Excellent optical output stability for the measurement of optical loss

The AQ2200-112 achieves a stable optical output of ±0.005 dB. This is accomplished by regulating the temperature of the emitting device, suppressing the influence of reflection from the device under test, and compensating for the fluctuations caused by interference. This light source ensures excellent stability of the output level and thus is suitable for evaluating loss in optical components.

Four different versions of the AQ2200-112 are available that cover the commonly used wavelengths of 1310 nm, 1550 nm, 1625 nm, and 1650 nm.

2. Easy construction of optical loss measurement systems

To measure optical loss, a light source and sensor are needed. In addition, when performing such measurements

at different wavelengths, an optical switch is required. With the AQ2200 series, optical sensors, optical switches, and grid tunable light sources have all been available as plug-in modules. The release of the AQ2200-112 fixed-wavelength light source module allows our customers to construct a system using the AQ2200 that is able to measure loss in optical communication components.

A multi-fiber push-on (MPO) connector adapter, which is a fiber connector consisting of multiple optical fibers, and a fiber optic ribbon cable adapter are also available as accessories for use with sensors to measure multi-core connectors, fiber optic ribbon cables, and the like.

Major Target Markets

- Developers and manufacturers of components such as optical fiber cables, optical connectors, and optical isolators
- Developers and manufacturers of optical communication components such as optical amplifiers and optical transmission devices

Applications

- Testing and inspection of optical components such as optical fiber cables and optical connectors
- Manufacturing testing and inspection of optical communication products such as optical amplifiers and optical transmission devices

On Yokogawa Test & Measurement's behalf, the U.S. subsidiary of Yokogawa Electric Corporation will exhibit this product at Photonics West 2019, a major trade show for the optical technology industry that will be held February 5 - 7 at the Moscone Center in San Francisco.

About the AQ2200 multi-application test system

To evaluate optical characteristics when developing and manufacturing optical transmission systems, several components are needed: light sources, optical switches for changing the path of optical signals, variable optical attenuators, and optical power meters. The AQ2200 multi-application test system accommodates a variety of plug-in modules that perform all of these functions. Users can combine these modules to configure a measurement system that meets their particular evaluation requirements.

For more information

http://tmi.yokogawa.com

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