

## PRESS RELEASE

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## **Yokogawa Launches High-performance AQ7275 Optical Time Domain Reflectometer for More Efficient Installation and Maintenance of Optical Fiber Networks**

Yokogawa Electric Corporation announces that it has developed the AQ7275 Optical Time Domain Reflectometer (OTDR) for use in a wide variety of optical fiber installation and maintenance applications. The AQ7275 will be released on December 6.

The AQ7275, a new model in the AQ7270 series, measures optical fiber lengths and losses and identifies failure locations. This instrument features greatly improved battery life and reduces the time required to perform on-site measurements when installing or maintaining optical fiber.

### **Development Background**

Optical fiber networks are being installed worldwide to meet the growing demand for transmitting large amounts of video and other types of data. The companies that construct telecommunications networks do not have sufficient numbers of personnel who are familiar with optical fiber measurements and are hard pressed to keep up with demand. These companies have a need for high-performance, easy-to-use OTDRs that can enhance efficiency at the worksite.

The AQ7275 is designed to greatly reduce the measurement time for medium and short optical fiber installation tasks including the construction of access networks (communications links between telephone termination points and the telephone exchanges) and user networks (communications links between user sites and the telephone termination points).

## Product Features

### 1. Reduced Measurement Time for Fault Location

The signal processing circuits and arithmetic algorithms have been improved in the AQ7275, reducing its measurement time in averaged measurement mode<sup>\*1</sup> to one-third that of the previous model. By reducing the AQ7275's waveform noise in real-time measurement mode<sup>\*2</sup>, it now has the capability to perform clear waveform measurements, thereby improving the efficiency of optical fiber installation.

### 2. Longer Battery Life

By greatly reducing the AQ7275's power consumption, it now has twice the battery life of the previous model. With an optional external large capacity battery (release scheduled for February 2008), an even longer operating time can be achieved. This will make it possible to carry out time-consuming optical fiber installation tasks without AC power.

### 3. New Options / Includes All Features of Previous Model

To make possible a wider range of applications, new light source options, including stabilized and visible light sources (release scheduled for February 2008), are available for the AQ7275. This product also has all the features that made the previous model so easy to use in the field, including the industry's shortest dead zone<sup>\*3</sup> (80 cm), a one-button measurement function, a power-up time of less than 10 seconds, and an 8.4 inch color LCD.

## Main Target Markets

Telecommunications carriers, CATV service providers, telecommunications network construction companies

## Main Applications

Quality assessment of optical fiber installation work

Measurement of optical fiber losses, identification of failure locations

\*1 Averaged measurement mode: In this mode, a waveform is displayed that represents an average of successive waveform data measurements. This smoothes out the noise waveform, making it easier to analyze its characteristics; however, instantaneous changes are not captured.

\*2 Real-time measurement mode: This mode always displays the latest waveform data. Instantaneous changes can be captured in real-time, but, for instance, noise waveforms are displayed without being processed.

\*3 Dead zone: In an optical fiber network with multiple connection points (connectors, etc.), the fiber between two points cannot be measured if its length is less than a specified value. This is a dead zone.

## About Yokogawa

Yokogawa's global network of 18 manufacturing facilities, 84 companies, and over 650 sales and engineering offices spans 33 countries. Since its founding in 1915, the US\$4 billion company has been engaged in cutting-edge research and innovation, securing more than 7,000 patents and registrations, including the world's first

digital sensors for flow and pressure measurement. Industrial automation and control, test and measurement, information systems and industry support are the core businesses of Yokogawa. For more information about Yokogawa, please visit our web site at [www.yokogawa.com](http://www.yokogawa.com).