Visible light (wavelength: 380 to 780 nm) is used in a wide range of fields such as medical care, biotechnology, material processing, and home electronics applications. In recent years, research and development of highly efficient high-performance products using optical technologies such as a semiconductor laser developed for data communication, has become more widespread, and increasing demand has developed for high-performance optical spectrum analyzers to evaluate and analyze their optical spectrum. The AQ6373B is a bench-top optical spectrum analyzer optimized for a short-wavelength band (350 to 1200 nm) covering a visible light band. It offers world-class optical performance and high-speed measuring, and can be used for a variety of purposes ranging from research and development to manufacturing.

**MAJOR FEATURES**

- **High wavelength resolution and measurement sensitivity**  
The AQ6373B offers high wavelength resolution down to 0.02 nm and a high close-in dynamic range. Its minimum receiving sensitivity in spectrum light of –80 dBm even enables measurement of a spontaneously emitting light contained in a semiconductor laser output with a high signal-to-noise (S/N) ratio.

- **High-speed measurement**  
Yokogawa’s original technology makes it possible to measure a wavelength span of 100 nm in less than 0.5 seconds.

- **Free-space optical input**  
Measuring via single-mode and multi-mode fibers is possible. Not using optical fibers in the input part lowers insertion loss even when using multi-mode fibers, and suppresses the degradation of measuring speed caused by falls in input signal levels.

- **Data logging function**  
This function performs spectrum analysis periodically, saves the results of up to 10,000 points, and displays them as tables or graphs. It can also save spectrum waveforms at each point at the same time, increasing the effectiveness of trouble-shooting. This function can be used for long-term stability examinations and temperature-cycle tests.

- **Excellent maintainability**  
Changes in the ambient environment and vibrations and shocks during transportation will affect the optical system to some degree and lead to performance degradation. The AQ6373B can maintain high optical performance thanks to its functions that automatically adjust optical axes and calibrate wavelengths. The automatic calibration algorithm has been improved so that it can calibrate using bright lines of a mercury-argon light source in addition to a helium-neon (He-Ne) laser.

**MAJOR SPECIFICATIONS**

- **Optical characteristics**  
  - Wavelength range: 350 to 1200 nm  
  - Wavelength resolution: 0.02 to 10 nm (full wavelength range), 0.01 nm (400 to 470 nm)  
  - Wavelength accuracy: ±0.05 nm (633 nm), ±0.2 nm (400 to 1100 nm)  
  - Level range: –80 to +20 dBm  
  - Dynamic range: 60 dB or more  
  - Applicable fibers: SM, GI (50/125 µm, 62.5/125 µm), Large-core fiber (up to 800 µm)

- **General specifications**  
  - Sweep time: 0.5 second or less (span: 100 nm, sensitivity: NORM_AUTO)  
  - Data storage  
    Internal storage: 512 MB or more  
    External storage: USB storage media (memory, HDD)  
  - Interface  
    USB: for storage media, mouse, keyboard  
    GP-IB/RS-232/Ethernet: for remote control

Contact us:  
To Yokogawa Japan:  
URL: http://tmi.yokogawa.com/  
E-mail: tm@cs.jp.yokogawa.com  
For worldwide locations, please see the back cover.

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