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Yokogawa Test & Measurement Releases MT300 Series Digital Manometers

Supporting a Wide Variety of Pressure Measurement Needs

Yokogawa Test & Measurement Corporation announces the September 6 release of the MT300 digital manometers, a new product series that will succeed the MT200 digital manometers used in a broad range of applications such as the calibration of measuring instruments, development and production of electronic devices, and plant maintenance. The MT300 series digital manometers feature a number of enhancements that include an extended measurement accuracy guarantee period.

Development Background

With the increasing need to conform to a variety of standards used in product development and production processes, measurement instruments need to be calibrated more frequently. In addition, as data is periodically collected for use in quality control, there is the need to improve the management of acquired data and enhance the convenience of data collection. Based on its long years of experience with pressure measurement products, Yokogawa Test & Measurement has developed a new series of digital manometers with enhanced performance and new functions that meet its customers' latest needs.

Product Features

1. Support of multiple pressure ranges for a variety of applications

The MT300 lineup consists of gauge pressure, absolute pressure, and differential pressure models that cover nine different ranges, from 1 kPa differential pressure to 3500 kPa gauge pressure, and thus are suitable for a wide variety of applications.

- Gauge pressure model: 4 ranges (10 kPa, 200 kPa, 1000 kPa, 3500 kPa)
- Absolute pressure model: 1 range (130 kPa)
- Differential pressure model: 4 ranges (1 kPa, 10 kPa, 130 kPa, 700 kPa)

2. High accuracy and long-term stability

As with the MT200 series, the MT300 series digital manometers are equipped with a Yokogawa silicon resonant sensor that is insensitive to temperature changes and features good long-term stability and high repeatability, enabling highly accurate measurements. Based on the excellent stability that these digital manometers have demonstrated over the years, the pressure measurement accuracy guarantee period for the MT300 series has been extended from six months to a full year.

- Pressure measurement relative accuracy* : 0.01%
- Pressure measurement accuracy guarantee period: 12 months

3. Enhanced functionality

For greater accuracy and reduction of uncertainty in pressure measurement and calibration, an MT300 option is available that increases the display resolution by one digit. Also, up to four units can be measured synchronously, improving accuracy by such means as eliminating the variations when measurements are taken under fluctuating atmospheric pressure conditions. In addition, for improved connectivity with personal computers, MT300 digital manometers now all come with GP-IB, USB, and Ethernet ports. These enhancements all contribute to increased efficiency in the collection of data and calibration of devices.

* Relative to a Yokogawa working standard

Major Target Markets

Calibration laboratories, commercial calibration service providers, automotive, home appliance, and medical device manufacturers, plant maintenance service providers, etc.

Applications

Calibration standards, device development tools, production/inspection line standards, field maintenance calibration tools

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 60 countries, generating US\$3.6 billion in sales in FY2018. For more information, please visit www.yokogawa.com.

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