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Yokogawa Meters & Instruments Releases 2553A Precision DC Calibrator

Yokogawa Meters & Instruments Corporation announces that it has developed the 2553A precision DC calibrator and will release this product on September 19. The 2553A precision DC calibrator is an easy to use, yet highly accurate instrument that can be used to calibrate analog power meters, thermometers, and temperature controllers that use a thermocouple or a resistance temperature detector (RTD).

Development Background

Power meters, thermometers, and temperature controllers require periodic calibration to maintain their accuracy. As it can be quite time-consuming and costly to send an instrument back to the manufacturer or to a laboratory for calibration, many users elect to do this in-house, using a high-precision measuring instrument that they have purchased for use as a standard. Since the 1970s, Yokogawa has been a leading provider of measuring instruments with the high level of precision required for use as standards in the calibration of voltage, current, resistance, pressure, and temperature instruments.

In recent years, there has been a rise in demand for DC voltage and current calibration instruments as the result of increased use of direct current in data centers to avoid the power losses caused by AC/DC conversion and rising sales of thermometers, analyzers, and DC servo motors. However, there are few calibrators on the market that are intended specifically for the measurement of direct current, so many users are forced to use expensive multifunctional calibrators or voltage/current sources that are not as accurate or stable as a dedicated calibration instrument.

The 2553A has the optimum output range and functions required for the calibration of thermometers, temperature controllers, and analog power meters. In addition to having the same excellent ease of use as our previous model, the 2553A delivers substantially improved

performance. By leveraging the measurement technologies that it has developed over the years, Yokogawa will strengthen its lineup of calibrators and standard signal generators and thus expand its high-precision measuring instrument business.

Product Features

The 2553A precision DC calibrator outputs DC voltage in the range of ± 32 V and DC current in the range of ± 120 mA. In addition to being able to calibrate analog meters, the 2553A can calibrate thermometers and temperature controllers that utilize a thermocouple or RTD, as well as analytical instrument converters. The key features of this product are as follows:

1. Versatile

The 2553A can calibrate many different types of thermometers and temperature controllers and is compatible for use with all 10 thermocouple types as well as the platinum 100 (pt100) RTD specified by the International Electrotechnical Commission (IEC).

2. Accurate and stable

The 2553A outputs voltage and current with high accuracy and stability:

Accuracy: ± 75 ppm* for voltage (one year)

± 120 ppm for current (one year)

Stability: ± 15 ppm (one hour)

* parts per million

3. Ease of use

The 2553A is easy to operate, having a dedicated output setting dial for each digit in the numeric display, a sensor selection dial, and a dial for selecting voltage output, current output, temperature calibration, and other functions.

Major Target Markets

- Calibration institutes and calibration maintenance service providers
- Measuring instrument manufacturers

- Electric utilities and power plants

Applications

- Analog meter development, production line testing, and calibration
- Development, production line testing, and maintenance of thermometers, temperature controllers, and converters used in analytical instruments such as pH meters and oxidation reduction potential (ORP) meters

About Yokogawa

Yokogawa's global network of 86 companies spans 56 countries. Founded in 1915, the US\$4 billion company conducts cutting-edge research and innovation. Yokogawa is engaged in the industrial automation and control (IA), test and measurement, and other businesses segments. The IA segment plays a vital role in a wide range of industries including oil, chemicals, natural gas, power, iron and steel, pulp and paper, pharmaceuticals, and food. For more information about Yokogawa, please visit the company's website www.yokogawa.com.