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Yokogawa Meters & Instruments Releases LS3300 AC Power Calibrator Capable of Simultaneous AC Voltage and Current Output

—Limiting of functions to power meter calibration dramatically reduces initial cost—

Yokogawa Meters & Instruments Corporation announces that it has developed the LS3300, an AC power calibrator that can accurately and stably produce a wide range of AC power outputs for the calibration of power meters and other types of measuring instruments, and will be releasing it for sale on July 14. As it comes with only those functions needed for power meter calibration, the LS3300 will dramatically reduce the initial cost for our customers.

Development Background

Measuring instruments such as power meters, thermometers, and multimeters that are used in product development and on production lines need to be calibrated periodically. Thanks to the recent widespread introduction of quality management systems that are compliant with ISO 9001 and other international standards, there is an increasing need for the calibration of measurement instruments.

Many of the instruments used to calibrate power meters and the like are capable of simultaneous voltage and current output with phase control, and can also perform three-phase* AC power calibration if multiple calibration units are used in combination. These multifunctional instruments are expensive, are only capable of continuously outputting large currents for short periods, and are difficult to set up and operate for three-phase AC power calibration. As such, they do not meet the needs of customers who would like to calibrate smart meters and other power meters that require a large output current, calibrate single-phase AC power with a single device, and easily calibrate three-phase AC power.

In response to such needs, Yokogawa Meters & Instruments Corporation has developed the LS3300 AC power calibrator.

Features

1. **Reduced cost**

   The LS3300 can calibrate AC voltage, current, and power as well as test both power phase and power factor using a wide range of set values. While costing considerably less than other instruments thanks to its inclusion of only those calibration functions needed for power calibration, the LS3300 delivers a high accuracy of ±0.045% and a superb stability of ±0.01% per hour.

2. **Ideal for calibration of large-current measuring instruments and current sensors**

   Unlike many other calibrators on the market, the LS3300 includes as a standard feature the ability to output currents of up to 62.5 A for long periods of time. Further, three LS3300s can be synchronized to easily output currents of up to 180 A, thus enabling the calibration of instruments such as smart meters

and shunt-resistor current sensors.

3. Ideal for calibration of three-phase AC power

A single LS3300 can calibrate power meters on a single-phase two-wire power circuit. Multiple LS3300s can be used together to calibrate power meters used in single-phase three-wire AC power and three-phase AC power measurement. Using the multiunit control feature that is provided with all LS3300 calibrators, it is possibly to automatically set the voltage, current, power factor, phase, and other values on slave LS3300 devices by performing those settings on a single master LS3300 device. This significantly reduces the amount of time needed for single-phase three-wire and three-phase AC power calibration.

Major Target Markets

- Government calibration laboratories, privately owned calibration organizations, companies with departments that perform in-house calibration of power meters and other measuring instruments
- Companies that develop and/or manufacture indicating instruments such as power meters, clamp power meters, clamp testers, and smart meters

Purpose

Generation of voltage and current signals for calibration and testing of indicating instruments such as power meters, clamp power meters, clamp testers, and smart meters

* A single-phase two-wire system uses two conductors to carry the power of a single circuit, and a single-phase three-wire system uses three conductors to carry the power of two circuits. Three-phase AC power is a combination of three single-phase AC circuits.

About Yokogawa

Yokogawa's global network of 113 companies spans 60 countries. Founded in 1915, the US$3.5 billion company engages in cutting-edge research and innovation. Yokogawa is active in the industrial automation and control (IA), test and measurement, and aviation 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. Targeting this segment, Yokogawa helps companies maximize their profits by offering a wide range of highly reliable products and working with the subsidiary KBC Advanced Technologies to provide premium solutions and services. For more information about Yokogawa, please visit www.yokogawa.com

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