

Press Release

High-temperature pyrometers fit for harsh environs

Berlin – Fluke Process Instruments introduces the Endurance series of high-temperature infrared thermometers. Featuring a stainless steel IP65 housing and galvanically insulated I/Os, these units enable continuous process monitoring of the most demanding industrial applications, including primary and secondary metals manufacturing, carbon processing, and silicon production. Providing a measurement resolution of 0.1 °C, they also meet the requirements of the semiconductor industry. Two models cover wide measured temperature ranges of +550 °C to +1,800 °C and +1,000 °C to +3,200 °C, respectively. They can be operated in one- or two-color (ratio pyrometer) mode. An optical resolution of up to 150:1 allows measurements of smaller objects from a distance.



Illustration: Easy operation, superior precision, and longevity combined in one rugged infrared thermometer

The series is designed for comfortable configuration and operation. The sensors feature an intuitive rear-panel user interface and a built-in web server for data archiving, traceability, and process troubleshooting. The PC-based Endurance setup and monitoring software includes time-saving tools such as the new match function which automatically detects the correct emissivity of the measured surface. What is more, Fluke Process Instruments has further extended the range of sighting options and now offers a high-resolution on-board video camera for remote monitoring of the application and sensor alignment via Industrial Ethernet. In addition to laser sighting, which marks the

position or size of the measurement spot, LED sighting projecting the actual spot size on the target is also available now. Endurance series pyrometers provide a robust solution for manufacturers seeking to improve product quality and uniformity, reduce reject rates, maximize throughput, and minimize energy costs. Periodic lens cleaning checks are unnecessary, since a dirty lens alarm tells users when it is really time to clean. Accessories include an air-purge collar. The rugged sensors operate reliably at ambient temperatures up to +65 °C or up to +315 °C using cooling accessories. The manufacturer provides a best-in-class four-year warranty. The sensors use either Power over Ethernet (PoE) or DC power (18 to 48 VDC, 500 mA). They are available with Industrial Ethernet, RS-485, or Profinet interfaces as required.

Illustrations: endurance_appl

Char.s: 2,260

File name: 201510016_pm_endurance_en

Date: 2015-10-13

About Fluke Process Instruments

Fluke Process Instruments designs, manufactures, and markets a complete line of infrared temperature measurement and profiling solutions for industrial, maintenance, and quality control applications. Distributed worldwide under the Raytek, Ircon, and Datapaq brands, the products reflect the combined experience of over 125 years in manufacturing the world's finest temperature measurement tools and devices.

About Fluke

Founded in 1948, Fluke Corporation is the world leader in compact, professional electronic test tools. Fluke customers are technicians, engineers, electricians, and metrologists who install, troubleshoot, and manage industrial, electrical, and electronic equipment and calibration processes.

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