

PRESS RELEASE

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Process integration of IR thermometers made easy

A modular interface concept for IR thermometers facilitates communication with customer-specific process units

Berlin, 18 October 2011. Showcasing an innovative interface concept at the upcoming SPS/IPC/Drives exhibition in Nurnberg (*Hall 4A, Booth 130*), Berlin-based sensor manufacturer Optris will demonstrate how easily and quickly infrared thermometers can be integrated into automated systems.

All their infrared measuring devices which, in addition to the sensor head are also featuring a separate electronics box, implement multiple concepts for the interfacing with automation systems. Beside the analog interface there are no less than six digital interfaces to choose from. In this way, customers can select and install the interface which best suits their application and environmental conditions. All interfaces are bidirectional, allowing parameters to be both sent and received.

The temperature sensor can be connected to a network or controller using RS232, RS485, USB, CAN, Profibus DP or Ethernet. Specific measuring set-ups are required for example for measurements of various materials having different emissivities. This digital communication feature allows users to assign parameters easily. It also dispenses with the need for an A/D converter. Also, digital interfaces are able to bridge long distances, making installations much more flexible.

Users are offered the possibility to incorporate their own software through communication protocols provided by Optris. When the USB, RS232, RS485 or Ethernet interface is chosen, users can also install the optris Compact Connect software supplied with the sensor to record temperatures and to customise sensor settings.

Non-contact infrared thermometers are implemented in automated manufacturing processes within the glass, paper, plastics, automotive and metals industries, but also for quality assurance and maintenance purposes.

Optris GmbH

Technology company Optris GmbH is specialized in the development, production and sales of non-contact temperature measurement sensors via infrared. The product range covers portable infrared thermometers, stationary infrared industry thermometer as well as infrared cameras and calibration sources. All pyrometer set new benchmarks for the application at OEM solutions and multiple applications.

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