

PRESS RELEASE

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New, smart infrared thermometer optris CS LT

Berlin, 8 December 2010. Optris GmbH reacts to the growing demand within the low-price market segment of infrared thermometers for non-contact temperature measurement with the enhancements of the optris CS LT.

“Due to a regular exchange with our customers, we are able to adjust our products, such as the optris CS LT, continuously to the requirements of the market” informs managing director Dr.-Ing. Ulrich Kienitz. „Through the enhancement of the optris CS LT, the thermometer now consists of improved parameters such as a greater temperature range up to 1030°C. With the implementation of the intelligent LED display concept, we have also been able to introduce innovative ideas for the low-price market segment.“

Due to its outstanding cost-performance-ratio, the optris CS LT finds use in OEM solutions and for the infrared monitoring of large plants with a multitude of measuring points e.g. for maintenance (electrical and mechanical plant equipment with difficult access) or as part of the machinery and plant engineering (temperature monitoring within production processes).

The optris CS LT offers an additional, one-of-a-kind improvement: the intelligent LED display. On the one hand site, the display can be used as a target help and on the other hand site to show the condition of the device via the LED self-diagnosis (e.g. overheating of the sensor). Additionally, a visual alarm can take place parallel to the new alarm output at the device (open collector). A temperature code indication completes the innovative concept.

An additional innovation is the “ambient derating” function. At Optris, the optris CS LT is calibrated at different ambient temperatures at a black body. During applications at the customers, the sensor also measures the ambient temperature and takes this into consideration when measuring the temperature. Therefore, the dependency of the temperature measurement for e.g. changing ambient temperatures can be reduced and reliable data can be guaranteed.

The improved infrared thermometer allows temperature measurements within a great range between -40°C and 1030°C. The measurement device can also be used in surroundings of up to 80°C without additional cooling due to high temperature resistance. The optical resolution of the product has been enhanced to 15:1 and the response time to 25 ms.

The measurement device has also been improved regarding friendliness towards customers. Temperature ranges to be measured within the application are scalable through the analogue output as a voltage signal (mV). The specification for emissivity values and alarm threshold within automated processes can be carried out synchronically via the supply voltage for single or simultaneous for multiple sensors.

Optris GmbH

Technology company Optris GmbH is specialized in the development, production and sales of non-contact temperature measurement 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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