

## **Miniaturized infrared thermometer for plastic film**

Non-contact temperature measurement with measuring wavelength 3.43  $\mu\text{m}$

The temperature is a key physical variable for ensuring quality in the production of plastic film. The application of non-contact temperature measurement technology poses the challenge that films with a thickness of less than 1 mm are transparent for standard IR thermometers and consequently are not able to be measured. “We developed the *optris CT P3* infrared thermometer, which measures in a narrow spectral range of 3.43  $\mu\text{m}$ , in order to enable a precise temperature measurement of thinner films made of, for example, PE or PP,” explains Dr. Thomas Heinke, Head of Development at Optris.

### **Rugged, heat-resistant and good process integration**

The *optris CT P3* is a miniaturized and robust pyrometer in a solid casing, which is suited for retrofitted parts and OEMs. Without cooling, it can be used in environments of up to 75 °C and has protection class IP 65.

The electronics (420 g) are separate from the sensor head (200 g) and have easily accessible programming buttons along with an illuminated LCD display. Selection options for the analog outputs are between 0/4-20 mA, 0-5 V, 0-10 V, thermic element version K or J. The digital outputs optionally available are USB, RS485, RS232 interface, relay outputs, CAN bus, Profibus DP or Ethernet.

## About Optris

Optris was founded in 2003 and established itself as one of the leading manufacturers of non-contact temperature measurement equipment within a decade. The product range consists of both portable and stationary infrared thermometers and online infrared cameras for thermographic real time analyses. Optris products are developed and produced in Germany to ensure the highest standards in quality, a central element of company policy.

## Images

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