

Press Release

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New infrared pyrometer measures temperature of thin plastic film

Precision sensor manufacturer Micro-Epsilon has extended its range of infrared temperature sensors with the new thermoMETER CTP-3, an infrared pyrometer that enables the non-contact temperature measurement of thin polypropylene, polyethylene and polystyrene film. The sensor operates at a wavelength of 3.43 μ m, which is particularly suitable for these types of film.

Normally plastic films with a thickness of less than 1mm are transparent to standard infrared (IR) temperature sensors. The thermoMETER CTP-3 pyrometer measures in a narrow spectral range of 3.43 μ m, where the IR transmission is blocked for these materials. This enables the temperature of polypropylene, polyethylene and polystyrene film to be measured reliably. The addition of the CTP-3 to the thermoMETER range of pyrometers means that Micro-Epsilon can now offer a solution to measure temperature on a non-contact basis of almost all materials.

The wavelength of 3.43 μ m at which the thermoMETER CTP-3 operates is perfectly suited to polypropylene, polyethylene and polystyrene film. With other film types such as polyethersulfone or polyurethane, the thermoMETER CTP-7 can be used, as its spectral range at 7.9 μ m is adapted to suit these materials.

The temperature range of the thermoMETER CTP-3 extends from 50°C to 400°C. The pyrometer provides stable measurement values in ambient temperatures up to 75°C. The pyrometer is available with either analogue or digital outputs.

High accuracy and resolution are key characteristics of all thermoMETER sensors. Particularly for temperature-critical applications, infrared sensors from Micro-Epsilon are the preferred choice in order to achieve reliable measurements.

For more information, please call the Micro-Epsilon sales department on 0151 355 6070 or email :info@micro-epsilon.co.uk

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Note to Editors: Micro-Epsilon (www.micro-epsilon.co.uk) is a major global manufacturer of sensors, headquartered in Germany. The company's range of displacement sensors measure everything from to distance, position, vibration, dimensions and thickness, using both contact and non-contact measurement techniques. These techniques include 1D, 2D and even 3D laser-optical sensors and systems, eddy-current, capacitive, LVDT & inductive, potentiometric and draw-wire principles. In addition, Micro Epsilon has developed its own range of non-contact infrared temperature sensors that can measure virtually any target temperature from -40 to +3,300°C. The company also manufactures a comprehensive range of colour recognition sensors.

With more than 45 years' experience in the industry, Micro-Epsilon isn't just a sensor manufacturer. The company is highly innovative and understands the importance of providing complete solutions and support services for its customers. The firm is renowned for its expertise in consulting, development and application of industrial sensors to complex, customer-specific solutions for measurement, inspection and automation. The focus is on selling technical advantage to its customers.

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