PRESS RELEASE

Online: https://www.optris.com/details/new-high-speed-pyro-meter-ct-4m-from-optris-775

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High-speed pyrometer CT 4M from Optris
Where there is a need for speed

With very **fast processes**, requirements for the pyrometers used for temperature measurement are especially onerous. Typical examples are plastics processing machinery, such as those used for blow-molding PET bottles, which work on **very short cycle times**. Another application is the monitoring of rail vehicles, where the temperature of the wheelset bearings are measured as the train wheels pass the pyrometer, to be able to detect components running hot in good time. Optris now offers the new **high-speed pyrometer** CT 4M for these types of challenging tasks. With a **detection time** of just **90 µs**, it is the **fastest pyrometer** within the product range at Optris.

Optimum for metal surfaces and low temperatures

The CT 4M measures within the **spectral range of 2.2 µm to 6.0 µm**, making it ideal for **low-temperature measurements** on metals, metal oxides, ceramics or for materials with an unknown or changing emissivity.

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Here, low temperature means the measurement range which spans **32 °F to 932 °F.** The **sensor head** of the new pyrometer is **very compact**; with a diameter of 14 mm and a length of 28 mm, it can easily be installed even where space is at a premium, for example directly within a machine. The remote electronics unit is connected to the sensor head via a cable which can be up to 15 m long. Important parameters can be entered here directly via three keys and an illuminated display.

The integrated interface allows the CT 4M to be connected directly to a PC, where all settings can be fine-tuned in the **CompactPlus Connect software**. Date capture and recording are also possible using the software. Other serial interfaces or an Ethernet interface are also available as options. Instead of a **PC**, the pyrometer can also be connected to an **Android mobile device** which has the free **IRmobile app** installed. This allows the settings of the pyrometer to be adjusted very conveniently during commissioning or maintenance work directly on site.
To **connect** the CT 4M to the process, **two scalable analog outputs** and **three I/O pins** (programmable inputs/outputs) are available.

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About Optris GmbH

Optris GmbH was founded in 2003 and has established itself as one of the leading manufacturers of non-contact temperature measurement devices. Its product portfolio consists of both wearable and stationary infrared thermometers and online infrared cameras for thermographic real-time analyses. Optris develops and produces in Germany to ensure the highest standard in quality as a key component of its company policy.

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Images
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