



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

With very fast processes, in some cases with very short cycle times, requirements for devices used in temperature measurement are especially onerous. Also in the transport safety area, with fast rail vehicles, where the temperature of the wheelset bearings must be measured as the train passes, infrared thermometers with very short capture times are required.

Optris now offers the high-speed pyrometer CTlaser 4M specifically for these applications. As well as an **ultra-rapid capture time** of just **90 µs**, it provides a **good optical resolution of 33:1** and various focus options. An integrated double laser target allows straightforward alignment onto the object over larger measuring distances.

Optimum for metal surfaces and low temperatures

The CTlaser 4M measures within the spectral range of **2.2 µm to 6.0 µm**, making it ideal for temperature measurements in the range of **0 °C to 500 °C** on metals, metal

oxides, ceramics or for materials with an unknown or changing emissivity. The measurement head can be used at an ambient temperature of up to 70 °C - a cooled housing is available for temperatures **up to 175 °C**. 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 CTlaser 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 necessary settings to be adjusted very conveniently during commissioning or maintenance work directly on site.

To connect the CTlaser 4M to the process, **two scalable analog outputs** and **three programmable I/O pins** (inputs/outputs) are available.

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337 Words]

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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