



Ratio pyrometer for high temperatures

With CSvision for robust real-time process monitoring

A range from 300 °C to 3000 °C: With the new CSvision series of ratio pyrometers from Berlin-based infrared specialist Optris, it is possible to measure the temperature of metals, melts or ceramics non-contact, safely and reliably from different distances.

Infrared pyrometers must meet high demands: Especially in metallurgy, they are often used under harsh conditions in which they must deliver reliable results at any time. Smoke, steam, or dust often impede a clear view of the measured object and affect the measurement signal. In these conditions, **ratio pyrometers** nevertheless provide stable measured values - compared to single-channel pyrometers, even with dirty optics or with objects that move within the measuring field (e.g. metal rods or wires).

The new CSvision is equipped with the innovative **Smart Ratio Mode (SRM)** and can thus master even challenging applications with variable emissivity ratios. The built-in **video sight** and the **motorized focus**, which can be operated via software or app, allow the CSvision novelties to be focused very conveniently on the respective object. The switchable two-stage **brightness reduction filter** ensures optimum viewing

conditions even with very hot and therefore bright objects. Together with the **crosshair laser**, which is also standard, this ensures simple sensor alignment under all conditions.

Two infrared pyrometers for precision-fit applications

The CSvision R1M offers an **optical resolution** of up to **150:1** and a measuring range of **600 to 3000 °C** with a **spectral range of 0.8 to 1.1 µm** - in harsh industrial environments up to 65 °C without cooling. The R2M has an optical resolution of **75:1** and a spectral range of **1.45 to 1.75 µm**. This allows temperatures to be measured from as low as **300 °C to 1400 °C** (up to 60 °C without cooling).

Easy sensor setup and monitoring via app

Optris creates an easy-to-use solution with the CSvision series that can be set up quickly and easily. The infrared thermometers have an interface to the **IRmobile Android app** and **CompactPlus Connect** software. This allows easy video alignment

and real-time process monitoring. Two analog outputs are available for process integration, as well as digital interfaces such as **RS485 or Modbus RTU**.

A variably **programmable I/O** pin can optionally be used as alarm output, for signal triggering or e.g. for external emissivity/slope settings.



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The CSvision is also usable with the optris IRmobile App

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.

Images

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