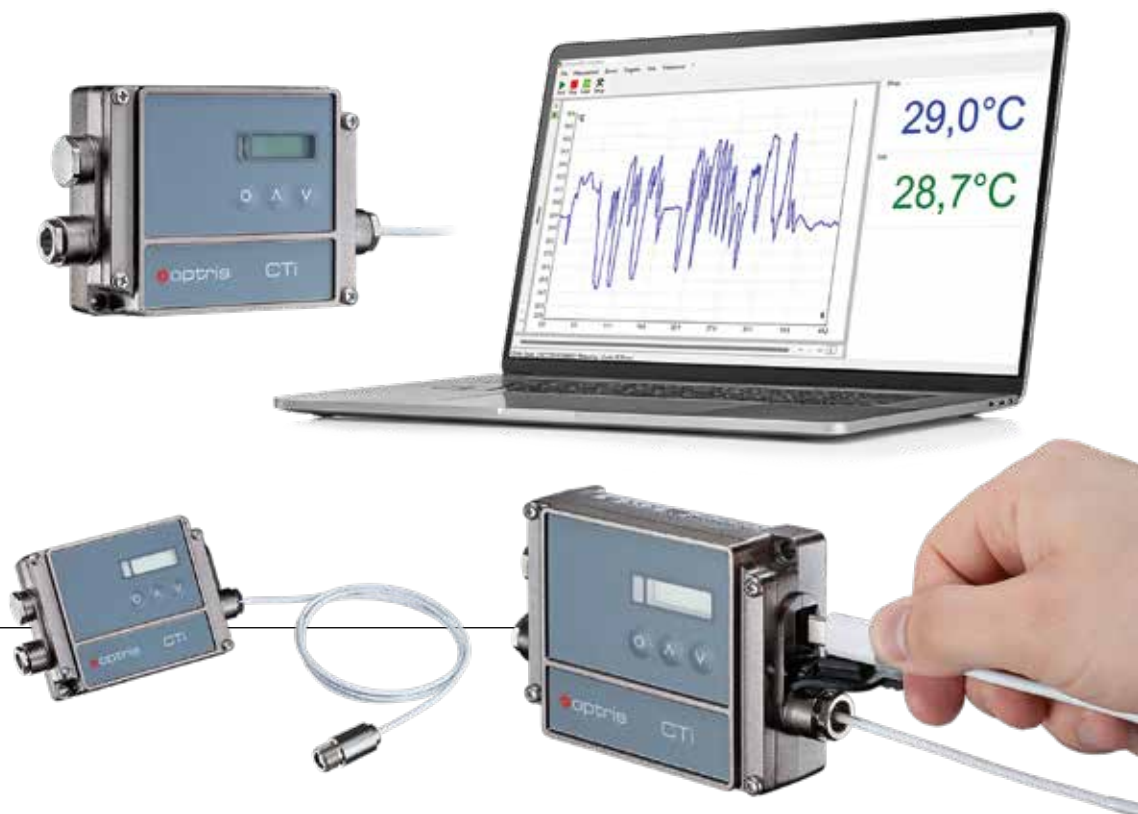


Expanding industrial sensing capabilities through **OPTRIS** CTi developments

New infrared sensor models from **OPTRIS** are expanding the CTi platform - delivering precise non-contact temperature measurement across demanding industrial environments. With optimized wavelengths, faster response times and improved connectivity, the range supports reliable monitoring of metals, high-speed processes and automation systems with enhanced flexibility and integration.

Berlin, Germany - Op-
tris GmbH & Co. KG
has expanded its CTi
pyrometer portfolio with the
introduction of the CTi 1M
and CTi 2M models. De-
signed for demanding indus-
trial environments, both in-
frared sensors deliver highly
accurate, non-contact tem-
perature measurement for
metals and high-temperature
applications, while maintain-
ing the compact, modular
CTi platform design. The
CTi 1M operates at a short
wavelength of 1.0 μm and
covers temperature ranges





design with separated electronics, an integrated display and easily accessible programming keys. Extensive interface options -including analog outputs, a built-in USB interface not available in the previous CT series, RS485, Ethernet-based protocols and industrial fieldbus systems- ensure straightforward system integration and long-term scalability. "With the new CTi 1M, CTi 2M and CTi LTfast models, we are significantly expanding the flexibility of our CTi platform," says Torsten Czech, Head of Marketing at Optris. "Customers benefit from optimized wavelength selection, extremely fast response times and a compact, robust design that enables reliable temperature measurement across a wide range of industrial applications."



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from 350 °C up to 2200 °C, making it particularly suitable for steel, tungsten, iron and semiconductor processes. Its fast exposure time of 110 µs and response time of 320 µs enable reliable monitoring of rapid thermal processes, while an optical resolution of up to 75:1 ensures precise measurements even at longer distances. Complementing this model, the CTi 2M features a 1.6 µm spectral range optimized for lower metal temperatures between 150 °C and 2000 °C. The short-wavelength design minimizes measurement deviations caused by emissivity changes and reflections, providing stable readings in real production

environments. With a miniature sensing head and robust stainless-steel construction, the sensor integrates easily into confined machinery installations. Both CTi M models also feature a lower starting temperature than the previous CT series.

**CTi LTFAST:
HIGH SPEED
MEASUREMENT
FOR DYNAMIC
PROCESSES**

With the CTi LTfast, Optris introduces a solution tailored for extremely fast control and monitoring applications. Covering a temperature range from -50 °C to 1050 °C, the sensor delivers response times

down to 6 ms, enabling precise monitoring of rapidly changing thermal processes. Operating in the 8-14 µm spectral range, the LTfast model is suited to high-emissivity targets and lower temperature applications such as plastics processing, automation systems and fast production lines. Its rugged sensing head withstands ambient temperatures up to 125 °C without cooling, while flexible analogue and digital interfaces support seamless integration into modern automation environments.

**FLEXIBLE PLATFORM
WITH INDUSTRIAL
CONNECTIVITY**

All new CTi models follow the established two-piece

**ABOUT OPTRIS
GMBH & CO. KG**

Optris GmbH & Co. KG 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.

