

ifm electronic



**With display and
pushbuttons:
compact infrared
temperature sensors
from ifm.**

Temperature sensors
www.ifm.com/gb/tw





For industrial applications

Infrared temperature sensors for hot objects

No contact:

Exact temperature measurement of particularly hot objects or objects which are difficult to access.

Hot:

For object temperatures of 0...2,500 °C.

Informative:

The TW20xx type display indicates the current temperature of the target object.

Simple:

The sensors can be set via the display and pushbuttons.

Precise:

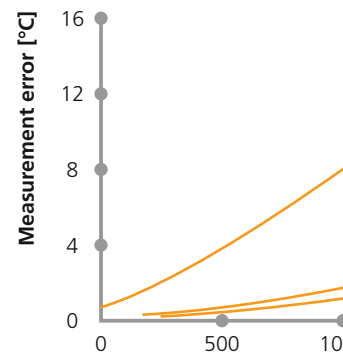
Scratch-resistant precision lenses for minimum sensitivity to ambient light.

Flexible:

Analogue output 4...20 mA and freely programmable switching outputs available.

Convenient:

Triggering of the test function on the sensor or by an external control signal.



Temperature measurement and wavelength in case of

Measure in hot environments

In combination with different lengths of optical fibre separate measuring heads allow use at extremely high ambient temperatures up to 250 °C. The temperature is set and indicated directly on the unit via pushbuttons and the display.

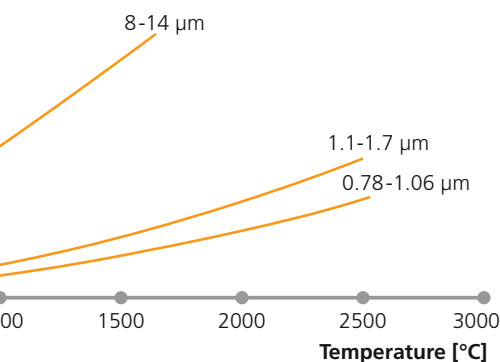


Seen from a safe distance

The non-contact infrared measuring principle allows temperature detection from a safe distance. Precision lenses ensure a high-precision detection zone.



Precise and convenient measurement, binary or analogue



Measurement errors depending on the temperature of an emissivity change of 1 %

Select the optimum sensor

The shorter the wavelength and the smaller the spectral range, the lower the impact of changes of the object's emission factor on the measurement.

In short:
The optimum sensor is to be as short-wave as possible.

Detect

Measuring range [°C]	Wave length range [μm]	Order no.
2 binary switching outputs		
50...500	8...14	TW7000
250...1250	1...1.7	TW7001
350...1350	1...1.7	TW7011*

Measure

Analogue out. 4...20 mA and switching out.

0...1000	8...14	TW2000
250...1600	1...1.7	TW2001
500...2500	0.78...1.06	TW2002
300...1600	1...1.7	TW2011*

*Sensor for fibre optic



Precise production monitoring

Heat treatment of screws in an annealing furnace: The TW20xx with analogue output precisely monitors the temperature of the glowing screws to assure quality during the annealing process.

A wide range of accessories is available



Air purge
E35063



Cooling jacket
E35064



Mounting bracket
E35065



Protective tube
E35066



Insulating tube
E35067

For more information, such as technical data, application videos or prices please go to

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Overview
ifm product range:



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**Sensors for
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Process sensors



**Industrial
communication**



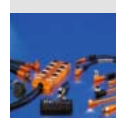
Identification systems



**Condition monitoring
systems**



**Systems for
mobile machines**



**Connection
technology**



Accessories