

PIROS[®] S infrared pyrometer

-32 °C ... 1800 °C



PIROS[®] HT



**Non-contact temperature measurement
Steel glass paper plastics ceramics**

Piros pyrometers are non-contact measuring thermometers with analog outputs. They complement the Piros infrared sensor range with switching performance in the OSA/OKA/OKB range, which have been tried and tested for years (*please request brochure!*).

For temperature measurement we also have a selection of stationary designs in the Piros S range (OMS and OKS) available, in addition to the Piros HT (OHT) hand-held thermometer in various types with measurement ranges between -32 and +1800 °C.

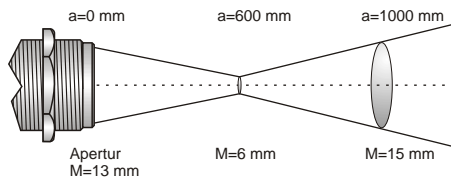
The sensors have been designed for control and monitoring tasks in many varied industries:

- steel works and rolling mills,
- forging works,
- presses,
- soldering, sintering and hardening works
- glass industry,
- food industry.

We recommend the use of our questionnaire for application analysis so that the user does not necessarily need to cope with the theory of radiation measurement. (*Please order by fax or at www.proxitron.com*)

The following criteria are relevant for selection of the correct sensor:

- size and condition of the object;
- minimum/maximum object temperature;
- distance from sensor;
- measurement range;
- interference influences and environment;
- required output signal



Various optical systems ensure optimum adaptation of the measured area to the object size. Please see the type summary for a list of measured area size in relationship to object distance.

Highlight overview

OMS

Stainless steel housing with Pg11 thread
Temperature range 100 - 650 °C,

Electrical connection: 24 V DC, analog output (+, -)

Three alternative measured value outputs:
10mV/°C,
according to thermal element type J,
according to thermal element type K.
These outputs enable simple replacement of contact-measuring thermometers.

Accessories: cooling jacket, 90°- mirror, fixing bracket.

OKS

Stainless steel housing with M40 thread
Temperature range from -32 to 1300 °C, for metal, glass or other materials

Electrical connection:
24 V DC as current loop with 4 - 20 mA measuring signal

With integrated laser pilot light and maximum value memory depending on model.

Integrated service interface for parameterisation via PC or hand-held parameterisation device.

Accessories: fixing bracket, refrigerated jacket, blowing attachment, laser pilot light unit, software and RS232 cable, hand-held parameterisation device.

OHT

Mobile hand-held measuring device in ergonomic plastic housing with display and user guidance in transport case.

Switch for continuous measurement mode

Accumulator operation,

With laser pilot light, analog output, RS232 interface, data memory, hi/lo alarm, min/max/average/difference/hold functions, accumulator charging connection, depending on model

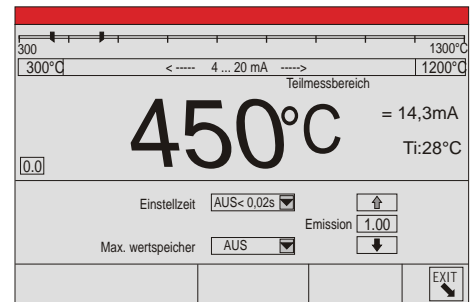
Accessories: tripod, holster, software and RS232 cable, calibration certificate, lens attachment, contact thermometer.

Software and hand-held programming devices for OKS and OHT

The integrated service interface enables display and adaptation of the following parameters

- temperature display °C / °F
- measurement range settings
- emission degree
- maximum value memory
- setting time (90% time)

Settings can be carried out using a laptop or PC with the aid of the optional service software and the interface cable provided. The software runs under Windows. The temperature display can be shown as °C or °F. The user guidance system is multi-lingual (German, English, French, Italian, Spanish) and entirely intuitive.



The DAK 316 hand-held parameterisation device allows temperature display on site at any time in addition to changes to all device parameters without PC or software.



Piros S

OMS



Type	Art. No.:	Application	Measuring range	Output	Measuring point/ distance	Remarks
OMS 500.1U L	6905A	Non-metals	100 - 500 °C	10 mV / C°	60 mm / 300 mm	
OMS 500.1J L	6906A		100 - 500 °C	Contact potential J	60 mm / 300 mm	
OMS 500.1K L	6907A		150 - 650 °C	Contact potential K	60 mm / 300 mm	

OKS



Type	Art. No.:	Application	Measuring range	Output	Measuring point/ distance	Remarks
OKS 1 GA13.14	6901A	Metals	300 - 1300 °C	4 - 20 mA	6 mm / 600 mm	
OKS 2 GA13.14	6901B				9 mm / 1000 mm	
OKS 3 GA13.14	6901C				11 mm / 1500 mm	
OKS 4 T410.14	6902A	Objects in furnaces	200 - 1000 °C		2,5 mm / 100 mm	
OKS 5 T410.14	6902B				6 mm / 300 mm	
OKS 6 T410.14	6902C				24 mm / 1200 mm	
OKS 4 T512.14	6903A	Glass	100 - 1200 °C		2,5 mm / 100 mm	
OKS 5 T512.14	6903B				6 mm / 300 mm	
OKS 6 T512.14	6903C				24 mm / 1200 mm	
OKS 7 T1409.14	6904A	Non-metals	-32 - 900 °C	2 mm / 100 mm		
OKS 8 T1409.14	6904B			6 mm / 300 mm		
OKS 9 T1409.14	6904C			16 mm / 800 mm		

Piros HT

OHT



Type	Art. No.:	Application	Measuring range	Output	Measuring point/ distance	Remarks
OHT 400	6908A	Non-metals	-32 - 400 °C		100 mm / 1000 mm	
OHT 900	6909A	All Surfaces	-32 - 900 °C	1 mV / C°	20 mm / 1000 mm	
OHT 900 P	6910A				20 mm / 1000 mm	
OHT 900 PS	6911A				20 mm / 1000 mm	incl. Accessories
OHT 1800GL PS	6912A	Glass	150 - 1800 °C	1 mV / C°	13 mm / 650 mm	incl. accessories

Piros S / HT accessories

A wide selection of accessories rounds off our product range, and allows adaptation to many different application conditions.



Type	Art. No.:	Application
OMS accessories		
DAM 201	6914A	Cooling jacket
DAM 202	6914B	90° deflection mirror
DAM 203	6914C	Adjustable fixing bracket
DAM 204	6914D	Rigid fixing bracket
OKS accessories		
DAK 301	6913A	Interface cable + software
DAK 302	6913B	Cooling jacket
DAK 303	6913C	Heavy blower attachment
DAK 304	6913D	Light blower attachment
DAK 305	6913E	Adjustable fixing bracket
DAK 308	6913G	Laser Pilot light unit
DAK 316	6913H	Parameterisation device
OHT accessories		
DAH 101	6915A	Lens attachment
DAH 202	6916B	Interface cable + software

Applications

- Temperature measurement of glass surfaces
- Material monitoring in presses
- Material detection for the paper or plastics industries
- Temperature monitoring for food industry
- Monitoring object temperatures in furnaces or behind gas flames.
- Heating and air-conditioning
- Electrical equipment, electronics
- Automobile diagnostics
- Road construction
- Chemical industry
- Furnace construction
- Research and development



Range of products

Inductive proximity switches

- WG 210 Switch distance < 20 mm
- WG 220 Switch distance 20-60 mm
- WG 230 Switch distance 60-120 mm
- WG 240 Sensor strips
- WG 241 Surface sensors
- WG 250 Ring sensors
- WG 260 Inductive analog sensors and evaluation electronics

Other sensors

- WG 100 Capacitive sensors
- WG 510 Piros light barriers
- WG 610 Piros infrared sensors
- WG 620 Piros for fibre-optic cables
- WG 630 Piros infrared pyrometer
- WG 800 Flow sensors for airflow
- WG 830 Flow sensors

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