

Piros S infrared pyrometer



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 +2500 °C.

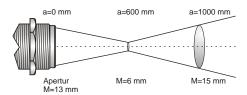
The sensors have been designed for control and monitoring tasks in many varied industries:

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 2500 °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 continous 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 multilingual (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



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

OKS



Туре	Art. No.:	Application	Measuring range	Output	Measuring point/ distance	Remarks
OKS 1 GA13.14 OKS 2 GA13.14 OKS 3 GA13.14	6901A 6901B 6901C	Metals	300 - 1300 °C		6 mm / 600 mm 9 mm / 1000 mm 11 mm / 1500 mm	
OKS 4 T410.14 OKS 5 T410.14 OKS 6 T410.14	6902A 6902B 6902C	Objects in furnaces	200 - 1000 °C	4 - 20 mA	2,5 mm / 100 mm 6 mm / 300 mm 24 mm / 1200 mm	
OKS 4 T525.14 OKS 5 T525.14 OKS 6 T525.14	6903A 6903B 6903C	Glass	400 - 2500 °C		2,5 mm / 100 mm 6 mm / 300 mm 24 mm / 1200 mm	
OKS 7 T1409.14 OKS 8 T1409.14 OKS 9 T1409.14	6904B	Non-metals	-32 - 900 °C		2 mm / 100 mm 6 mm / 300 mm 16 mm / 800 mm	

Piros HT

OHT



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

PMO5 infrared pyrometer

Piros S / HT accessories

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





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

Other sensors

	- p		
WG 210	Switch distance < 20 mm	WG 100	Capacitative sensors
WG 220	Switch distance 20-60 mm	WG 510	Piros light barriers
WG 230	Switch distance 60-120 mm	WG 610	Piros infrared sensors
WG 240	Sensor strips	WG 620	Piros for fibre-optic cables
WG 241	Surface sensors	WG 630	Piros infrared pyrometer
WG 250	Ring sensors	WG 800	Flow sensors for airflow
WG 260	Inductive analog sensors and evaluation electronics	WG 830	Flow sensors

Inductive proximity switches



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