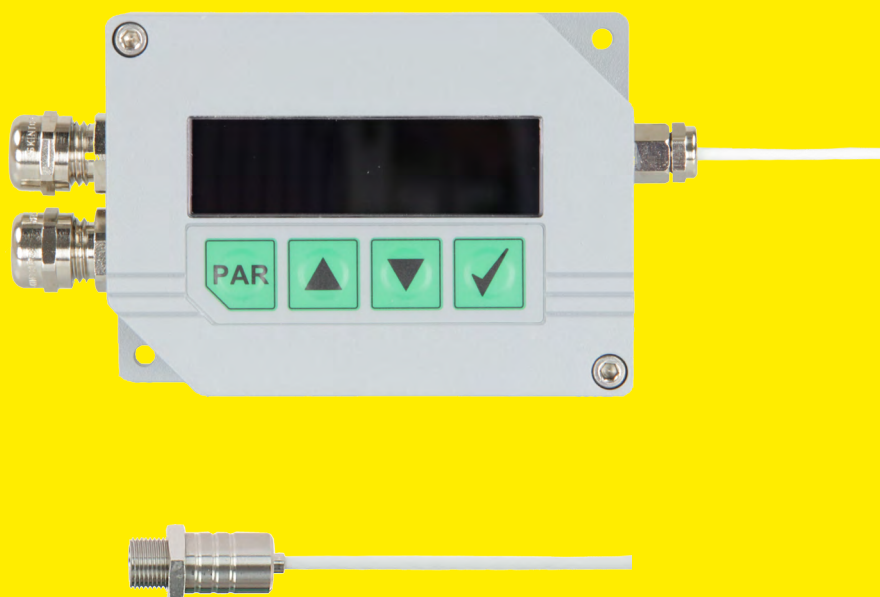


Pyrometers OKSD T GA S

-40 °C ... +2500 °C

Non-contact temperature measurement of steel, paper, plastics, ceramics



Measurement range	-40 - 1000 °C	0 - 1000 °C	250 - 1300 °C	350 - 1800 °C	600 - 1800 °C	800 - 2500 °C
Application	universal use	universal use	metal	metal	metal	metal
Spectral range	8 µm ... 14 µm	8 µm ... 14 µm	1,5 µm ... 1,8 µm	1,5 µm ... 1,8 µm	0,8 µm ... 1,1 µm	0,8 µm ... 1,1 µm
Accuracy	1 %	1 %	1 %	1 %	1 %	1 %
Response time (t ₉₅)	100 ms	100 ms	10 ms	10 ms	10 ms	10 ms
Display (OLED)	temperature and parameters	temperature and parameters	Temperature and parameters	Temperature and parameters	Temperature and parameters	Temperature and parameters
Programming	Via keyboard and software	Via keyboard and software	via keyboard and software	Via keyboard and software	Via keyboard and software	Via keyboard and software
Ausgang Output	0/4 -20 mA	0/4 -20 mA	0/4 -20 mA	0/4 -20 mA	0/4 -20 mA	0/4 -20 mA
Switching output	2 x solid state relays	2 x solid state relays	2 x solid state relays	2 x solid state relays	2 x solid state relays	2 x solid state relays
Inputs	2	2	2	2	2	2
Digital interface	RS-485	RS-485	RS-485	RS-485	RS-485	RS-485
Electronics						
Housing [mm]	110 x 80 x 40	110 x 80 x 40	110 x 80 x 40	110 x 80 x 40	110 x 80 x 40	110 x 80 x 40
Housing material	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium
Ambient temperature	0 ... +70 °C	0 ... +70 °C	0 ... +70 °C	0 ... +70 °C	0 ... +70 °C	0 ... +70 °C
Sensor head						
Housing [mm]	M12 x 35	M12 x 35	M12 x 35	M12 x 35	M12 x 35	M12 x 35
Housing material	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
Ambient temperature	0 ... +125 °C	0 ... +180 °C	0 ... +125 °C	0 ... +125 °C	0 ... +125 °C	0 ... +125 °C
Cable length	2,5 m, 5 m, 10 m	2,5 m, 5 m, 10 m	2,5 m, 5 m, 10 m	2,5 m, 5 m, 10 m	2,5 m, 5 m, 10 m	2,5 m, 5 m, 10 m
Near-field optics type			OKSD 1 GA13.194 R	OKSD 1 GA18.194 R	OKSD 1 S18.194 R	OKSD 1 S25.194 R
Standard optics type	OKSD T10.194 R	OKSD T10.194 RH	OKSD 2 GA13.194 R	OKSD 2 GA18.194 R	OKSD 2 S18.194 R	OKSD 2 S25.194 R

Accessories for pyrometers



Accessory	Mounting bracket	Air unit	Interface converter
Type	DAK 333	DAK 331	SIC 485 UD
Description	mounting bracket for M12 sensor head	air purge for M12	RS 485 >USB
Type			
Description			

OKSD T10.194 R	Measurement distance a [mm]	0	85	100	200	400	800
OKSD T10.194 RH	Measurement spot diameter M [mm]	7	6	7	10	25	55
OKSD 1 GA13.194	Measurement distance a [mm]	0	50	80	100	150	200
OKSD 1 S18.194 R	Measurement spot diameter M [mm]	3,5	2,9	2,5	4	7,5	11
OKSD 1 GA18.194	Measurement distance a [mm]	0	50	80	100	150	200
OKSD 1 S25.194 R	Measurement spot diameter M [mm]	3,5	2,2	1,3	2,5	5,5	8,5
OKSD 2 GA13.194 R	Measurement distance a [mm]	0	250	500	750	1000	1500
OKSD 2 S18.194 R	Measurement spot diameter M [mm]	3,5	10	16	22,5	29	42
OKSD 2 GA18.194 R	Measurement distance a [mm]	0	250	500	750	1000	1500
OKSD 2 S25.194 R	Measurement spot diameter M [mm]	3,5	7	10	13	16	22

Pyrometers OKSD T GA S – General Information

Stationary pyrometers of the OKSD series measure the temperature of object contactless and give an analog output signal. For the measurement on different materials several variants are available for temperature ranges between -40 and +2500 °C. The OKSD series has been designed for control and monitoring tasks in different industrial sectors.



The key feature in selecting a pyrometer is its spectral range, as this must be related to the properties of the specific material and to the application. A pyrometer with wavelength as short as possible is recommended, if you want to achieve high accuracy. Various optical systems ensure best adaptation to the object size. To avoid reading errors, it is necessary to choose a measurement spot that can always be completely filled by the object. The table shows for the different types the spot dimension in relation to the object distance. The OKSD series features a separate sensor head which can be used at ambient temperature of up to 125 °C or 180 °C. Installation in limited spaces is possible thanks to its compact stainless steel M12 housing.

All models are provided with an analog output 0/4-20 mA, two relay outputs, two inputs and a RS 485 interface. The electronics box has a display to show temperature values and adjust parameters.

can be displayed Through the multilingual windows software – associated with the interface cable - it is possible to adjust the measurement range and emissivity, as well as to display the temperature values in °C / °F, evaluate and record them. Also max and min. storage value and the measuring rate can be set. Versions in different cable lengths are available. A comprehensive range of accessories allows the adaptation to different operating conditions.

- Temperature monitoring in presses
- Process control in the paper or plastics industry
- Temperature monitoring in the food industry
- Heating and air-conditioning
- Electrical equipment, electronics
- Road construction
- Chemical industry
- Furnace construction
- Research and Development
- Steelworks and rolling mills
- Forging
- Presses
- Soldering, sintering and hardening



- Temperature measurement between -40 and +2500°C
- Accuracy up to 1%
- Response time from 10 ms
- Different optics
- Sensor head in M12 stainless steel housing
- Ambient temperature up to +70
- Integrated OLED display
- Memory for minimum and maximum value
- 0/4 - 20 mA output
- RS 485 interface
- Adjustment of temperature range, emissivity and measuring rate possible via software
- Windows software for parameterization, display, storage and evaluation of the measurement values
- Extensive range of accessories