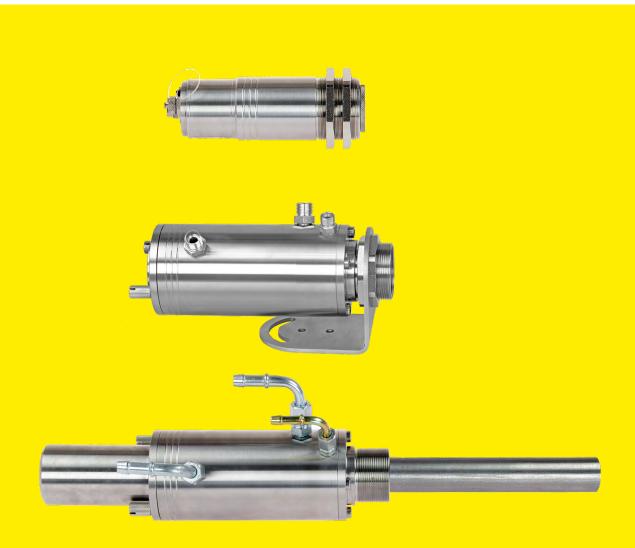


Pyrometers OKS T GA S

-40 °C ... +2500 °C

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





leasurement range	-40 - 1000 °C		100 - 1300 °	°C	3	300 - 1300 °	°C	250 - 1300 °C	350 - 1800 °C	6	00 - 1800	°C	8	00 - 2500	٥
plication	universal use		glass			ment throu	ugh flames	metal	metal	metal			metal		
ectral range	8 μm 14 μm		5,14 μm		3,9 µm			1,5 µm 1,8 µm	1,5 μm 1,8 μm	0,8	3 μm 1,1	μm	0,8 μm 1,1 μ		
easurement accuracy	1 %	1 %		1 %			0,5 %	0,5 %		0,5 %			0,5 %		
esponse time (t95)	time (t ₉₅) 60 ms		60 ms			60 ms		10 ms	10 ms	10 ms			10 ms		
utput	4 -20 mA (2 Wires)	4 -	4 -20 mA (2 Wires)		4 -20 mA (2 Wires)			4 -20 mA (2 Wires)	4 -20 mA (2 Wires)	4 -	20 mA (2 W	/ires)	4 -2	20 mA (2 \	
gital interface	USB	USB		USB			USB	USB		USB			USB		
egrated pilot light	no	no no				no		yes (LED)	yes (LED)	yes (LED)		1	yes (LED)		
ousing [mm]	M40 x 125		M40 x 125	5		M40 x 125	5	M40 x 125	M40 x 125	5 M40 x 125		5	M40 x 125		
ousing material	stainless steel		stainless ste	eel	S	stainless ste	eel	stainless steel	stainless steel	stainless steel		eel	stainless ste		
mbient temperature	0 +70 °C		0 +70 °C	C		0 +70 °C	С	0 +70 °C 0 +70 °C		0 +70 °C		С	0 +70 °C		
ear-field optics type	OKS 5 T10.14 S9	OH	KS 5 TG13.1	4 S9	ОК	S 5 TF13.1	4 S9								
andard optics type	OKS 6 T10.14 S9	OH	KS 6 TG13.1	4 S9	ОК	S 6 TF13.1	4 S9	OKS 2 GA13.14 S9	OKS 2 GA18.14 S9	OI	(S 2 S18.1	4 S9	Ol	(S 2 S25.1	
ng-range optics type	OKS 7 T10.14 S9	OKS 7 T10.14 S9 OKS 7 TG13.14 S9		4 59	OKS 7 TF13.14 S9			OKS 3 GA13.14 S9	OKS 3 GA18.14 S9	OI	(S 3 S18.1	4 S9	OI	(S 3 S25.	1
eleoptics type	OKS 8 T10.14 S9						OKS 4 GA13.14 S9	OKS 4 GA18.14 S9	OKS 4 S18.14 S9		OKS 4 S25.14				
	nent distance a [mm]	0	50	95	200	250	300		urement distance a [mm]	0	100	290	400	500	
KS 5 TG13.14 S9 KS 5 TF13.14 S9 Measurem	nent spot diameter M [mm]	15	8	1,7	21	29	38	OKS 2 S18.14 S9 Meas	urement spot diameter M [mm]	11,8	8,8	3	8,6	13,7	
									urement distance a [mm]	0	100	290	400	500	
KS 6 T10.14 S9	nent distance a [mm]	0	100	295	400	500	600	OKS 2 S25.14 S9 Meas	urement spot diameter M [mm]	11,8	8,2	1,5	6,5	11,1	
Measurem	nent spot diameter M [mm]	15	11,8	5,5	13	20	27		and the second second	^	200	CEO	000	1000	
									urement distance a [mm]	0	300	650	800	1000	
N3 0 10 13.14 39	nent distance a [mm]	0	100	260	400	500	600	OK3 3 316.14 39 Meas	urement spot diameter M [mm]	10,8	9,5	6,5	10,5	15,8	
KS 6 TF13.14 S9 Measurem	nent spot diameter M [mm]	15	10,8	4,2	15	22	29	OKS 3 GA18.14 S9 Meas	urement distance a [mm]	0	300	650	800	1000	
									urement spot diameter M [mm]	10,8	8,6	3,5	6,8	11,2	
	nent distance a [mm]	0	300	500	600	780	1000		The state of the s			-,-			
S 7 TG13.14 S9 Measurem	nent spot diameter M [mm]	15	14.6	14.4	14,3	14	19	OKS 4 GA13.14 S9 Meas	urement distance a [mm]	0	800	1600	2400	3200	
Medsurem	iene spoe diameter in [milli]	- 15	1 1,0	1 1, 1	1 1,0		13	OKS 4 S18.14 S9 Meas	urement spot diameter M [mm]	10,4	16,3	22,2	28,2	34,1	
Measurem	nent distance a [mm]	0	800	1200	1800	2000	2500	Moss	urement distance a [mm]	0	800	1600	2400	3200	
KS 8 T10.14 S9	nent spot diameter M [mm]	15	24	28	34	36	46		urement astance a [mm] urement spot diameter M [mm]	10,4	12,3	14,2	16,2	18,1	
Wedsdrein	iene spoe didiffecer in [iffili]	- 15		20	5.	30	-10	Weas	urement spot diameter wi [mm]	10,4	12,5	14,2	10,2	10,1	

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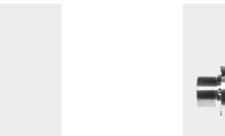
Accessories for pyrometers













Accessories for pyrometers





Accessory	Mounting bracket	Connection cable	Interface cable	Protection tube	Cooling jacket	Cable Protection Cape	Air purge unit	Laser pointer
Туре	DAK 304	ST S9/5-2	DAK 317	DAK 319	DAK 302	DAK 329	DAK 303	DAK 308
Description	one-side mounting bracket	length 2 m	USB, incl. software	length 100 mm	incl. air blow	compatible with DAK 302	air blow unit M40	laser light
Туре	DAK 305	ST S9/5-5		DAK 320				
Description	mounting bracket adjustable	length 5 m		length 300 mm				

Pyrometers OKS T GA S – General Information

Stationary pyrometers of the OKS 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 OKS 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 how the spot dimension changes in relation to the object distance. The incorporated LED light makes precise alignment on the object to be measured easier, as the light dimension approximately represents the measurement spot. For pyrometers without LED light we offer a separate Laser pointer.

All models are provided with a connector with 4-20 mA analog output in 24 V DC, 2 wire, current loop system. They also have a USB interface with galvanic isolation. A USB interface cable is available as option for stand-alone operation of the pyrometer without additional power supply. 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. Separate connection cables are available in several lengths. A comprehensive range of accessories allows the adaptation to different operating conditions.

- Temperature measurement of glass surfaces
- Material monitoring in presses
- Process control in the paper or plastics industry
- Temperature monitoring in the food industry
- Temperature control of objects in furnaces or behind gas flames
- 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 0,5%
- · Response time from 10 ms
- Several optics
- · Robust stainless steel M40 housing
- Ambient temperature up to +70, up to +200 °C with cooling jacket
- Integrated LED light for alignment (depending on version)
- · Memory for minimum and maximum value
- 4 20 mA output (2 wire 24 V DC current loop)
- USB interface, with galvanic isolation
- 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