

MiniRed - SKS



MiniRed-SKS

INFRARED THERMOMETER SKS

The infrared thermometer series SKS, covers a temperature range from -32° up to 2500°C , giving to the user a rich choice for every special application.

Build with microprocessor technologies and with top quality components, it guarantees a precise and repeatable temperature measurement.

The infrared detector, specifically selected and filtered, allows a stable temperature measurements also in sever environmental conditions with smoke or combustion gases, minimizing also measurement errors due to low emissivity materials.

The thermometer have a stainless steel enclosure IP 65 and is dedicate for industrial ambients.

The instruments are designed with 3 different optics for different applications.

The power supply is 24Vcc and the output is 4/20mA linear with peak picker process function.

Is available an accessory set including: Air purge, cooling jacket ,mounting brackets (fixed or adjustable) and laser point.

SITEL Control S.r.l.

20030 Palazzolo Milanese MI (Italy) Via Arnesano, 4 Tel. +39 02.990.45.994 Fax. +39 02.91.01.082
e-mail : sales@sitelcontrol.it http : www.sitelcontrol.it



INFRARED-COMPACT-SENSORS

	<i>SKS-S-18</i>	<i>SKS-S-25</i>	<i>SKS-GA-13</i>	<i>SKS-GA-18</i>	<i>SKS-T5-12</i>	<i>SKS-T5-25</i>	<i>SKS-T14-09</i>
Measuring range	650°C...1800°C 1202°F...3272°F	800°C...2500°C 1472°F...4532°F	300°C...1300°C 572°F...2372°F	350°C...1800°C 662°F...3272°F	100°C...1200°C 212°F...2192°F	400°C...2500°C 752°F...4532°F	-32°C...900°C -25.6°F...1112°F
Spectral range	0.8...1.1 µm	0.8...1.1 µm	1.45...1.8 µm	1.45...1.8 µm	5.14 µm	5.14 µm	8...14 µm
Distance relation	100 :	150 :	100 :	100 :	50 :	50 :	50 :
Response time t_{90}	20 ms	20 ms	20 ms	20 ms	100 ms	100 ms	100 ms
Accuracy	0.5 % of reading in °C + 1K	0.5 % of reading in °C + 1K	0.5 % of reading in °C + 1K	0.5 % of reading in °C + 1K	1 % of reading in °C + 1K	1 % of reading in °C + 1K	1 % of reading in °C + 1K
Repeatability	0.1 % of reading in °C + 1K	0.1 % of reading in °C + 1K	0.1 % of reading in °C + 1K	0.1 % of reading in °C + 1K	0.5 % of reading in °C + 1K	0.5 % of reading in °C + 1K	0.5 % of reading in °C + 1K
Emissivity	5...100 %	5...100 %	5...100 %	5...100 %	20...100 %	20...100 %	20...100 %
Integrated Pilotlight	Yes	Yes	Yes	Yes	-	-	-
Integrated MAX data storage (10 ms)	Yes	Yes	Yes	Yes	-	-	-
Optic	I, II, III	IS, IIS, IIIS	I, II, III	I, II, III	IV, V, VI	IV, V, VI	VII, VIII, IX
Output, linear	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA	4-20 mA
Max. load	700 Ω (24V)	700 Ω (24V)	700 Ω (24V)	700 Ω (24V)	700 Ω (24V)	700 Ω (24V)	700 Ω (24V)
Power supply	24 V DC ± 25 %	24 V DC ± 25 %	24 V DC ± 25%	24 V DC ± 5%	24 V DC ± 25%	24 V DC ± 25%	24 V DC ± 25%
Safety	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65	IP 65
Operating temperature	0...70°C 32...158°F	0...70°C 32...158°F	0...70°C 32...158°F	0...70°C 32...158°F	0...70°C 32...158°F	0...70°C 32...158°F	0...70°C 32...158°F
Storage temperature	-20...70°C -4...158 °F	-20...70°C -4...158 °F	-20...70°C -4...158 °F	-20...70°C -4...158 °F	-20...70°C -4...158 °F	-20...70°C -4...158 °F	-20...70°C -4...158 °F
Housing	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel	Stainless steel
Weight	ca. 450 g	ca. 450 g	ca. 450 g	ca. 450 g	ca. 450 g	ca. 450 g	ca. 450 g

Response time, Emissivity, the peak picker mode and partial measuring ranges are adjustable via interface with a PC.

OPTIC TYPE	a=0	600	1000	1500	2000
OPTIC I	13	6	15	26	36
OPTIC II	16	10	9	15	22
OPTIC III	17	13	11	11	17
OPTIC IS	13	4	12	23	34
OPTIC IIS	16	7	5	12	19
OPTIC IIIS	17	10	7	7	14

SITEL Control S.r.l.

20030 Palazzolo Milanese MI (Italy) Via Arnesano, 4 Tel. +39 02.990.45.994 Fax. +39 02.91.01.082

e-mail : sales@sitelcontrol.it <http://www.sitelcontrol.it>