

→ Electronic digital thermometer

→ Temperature sensors



ELECTRONIC MONITORING SYSTEMS
AND TEMPERATURE SENSORS



Electronic digital thermometer

SolarTemp type 850 with mounting plate

- Display suitable for sensor elements Pt1000
- Degree of protection IP65
- Measuring range 0...650 °C
- Optional Transmitter output 4...20mA
- Selection of temperature sensors for SolarTemp Type 850 is located on page 56

Technical data

Ambient temperature	-20...60 °C (case)
Case	170 x 150 mm, steel case blue powder-coated, aluminium mounting plate
Power supply	Solar cell
Light density	Min. 50 Lux
Digital display	4 digit, 7 segment display, 25.4 mm high

Approved by several classification societies

SolarTemp 850



Order code

Type	Range	SIKA-Code	ISSA-Code	IMPA-Code
Standard version	0...650 °C	85065P54	61 122 51	651861
Transmitter version	4...20 mA 0...600 °C	85065P53360	61 122 52	651862
Transmitter version	4...20 mA 0...300 °C	85065P53330	61 122 53	651863

SolarTemp applications



SolarTemp type approval certificates

- Germanischer Lloyd
- ABS
- ClassNK Nippon
- DNV
- LR
- BV
- Korean R.

Temperature sensors

Temperature sensors for marine applications

Temperature measurement in marine applications makes high demands on sensor reliability. Standard temperature sensors not specifically designed for this application will not last long time in this environment. Especially sensors used on diesel engines and propulsion systems are subject to severe vibration with acceleration as high as 200 g in some cases as well as occasional exposure to water and oil. SIKA has longterm experience in manufacturing products for the marine industry and together with engine builders and end users has developed a wide range of temperature sensors suitable for this harsh environment.

Rugged design, vibration resistant components and reliable manufacturing give SIKA sensors a long lifetime also under difficult conditions. For quality assurance each sensor is thoroughly tested during and after production. The quality management system installed by SIKA guarantees a constant and reliable performance of the products.

Due to the high flexibility of SIKA, sensors in many common designs are available. Special sensors can be manufactured on request.

Important calibration instructions

Temperature sensors may be subject to changes in accuracy during their lifetime. A periodic calibration of your temperature sensors is required to make sure that they display always a correct temperature value. We provide you with the relevant calibration tools. Please see selection of Test & Calibration products from page 85.

SIKA temperature sensors

- For exhaust gas temperature measurement
- For cooling water temperature measurement
- For oil temperature measurement

Approvals

- Most sensors are approved by Germanischer Lloyd
- Additional approvals on request

Temperature sensors approval certificates

- Germanischer Lloyd
- ABS
- ClassNK Nippon
- DNV
- BV
- RINA



Temperature sensor and sensor cable

for SolarTemp type 850

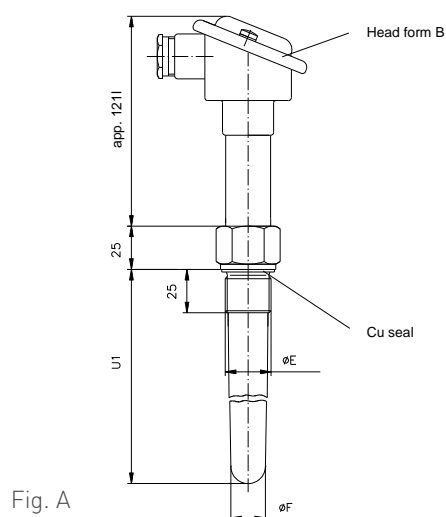


Fig. A

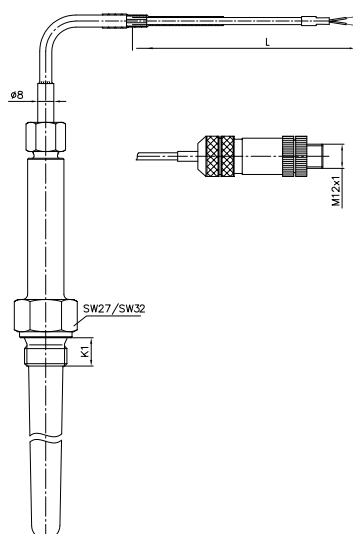


Fig. B

Please ask for customised specifications



Order code	SIKA-Code	ISSA-Code	IMPA-Code
Sensor cable (connection sensor to indicator)			
Length*			
3 m	WKS8203000F	61.122.72	651866
5 m	WKS8205000F	61.122.73	651867
10 m	WKS8210000F	61.122.74	651868
15 m	WKS8215000F	61.122.75	651869
Transmitter cable (connection indicator to remote control)			
10 m	WKB8210000F		651871
15 m	WKB8215000F		651872

* Other lengths available on request

Order example	W	14	3	P53	100	2	3	8	2	03	ISSA-Code	IMPA-Code
Type												
Resistance thermometer	W											
Diameter												
14 / 17 mm conical (U1 = 100 mm or 150 mm)		14										
17 / 23 mm conical (U1 = 100 mm or 150 mm)		17										
20 / 23 mm conical (U1 = 200 mm)		20										
Material												
Stainless steel 1.4571			3									
Sensor element												
2 x Pt1000 (only for transmitter version)				P53								
1 x Pt1000				P54								
Immersion tube length U1												
100 mm					100						61.122.55	
150 mm					150						-	
200 mm					200						61.122.76	
Measuring insert												
Demountable						2						
Electrical connection												
Plug M12 x 1 (Fig. B)							3					
Head form B (Fig. A)							B					
Cable												
Teflon FEP shielded (only plug M12 x 1) (Fig. B)								8				
Without cable (only Head B) (Fig. A)								0				
Process connection												
G½									2			
G¾									3			
Thread M33 x 2									F			
Cable length (only Fig. B)												
2.0 m										03		
3.0 m										05		
5.0 m										09		