

Temperature calibrators

Temperature calibrators - Series TP Basic

SOLAS ISM regulation

In 1998, the International Safety Management (ISM) code was adopted by IMO and became mandatory on certain ocean going vessels. In 2002 the Safety Of Life At Sea (SOLAS), Chapter IX and the ISM code applies to all ships. Our calibration equipment (temperature calibrators and pressure calibrators) will enable ship owners and marine engineers to comply with the SOLAS regulation for maintenance standards. We advice a recalibration of the calibrator with a cycle between 1 and 2 years depending on strain.

The recalibration comprises:

- On board:
SIKA Recalibration Set (see on the following pages)
- SIKA in house:
Calibrator adjustment made by SIKA laboratory with certificate

Economic and safe

Exact temperature measurement and monitoring are "musts" in applications crucial to operational safety of machinery and industrial installations.

Regular inspection of the temperature sensors used in these applications is essential for economic and technical safety reasons and is already prescribed as obligatory in many sectors. The temperature calibrators are already a part of the standard equipment of the technician in the above listed sectors.

These compact devices are easy to transport and easy to operate and have all performance features required for "in-situ inspection".

For inspection of

Thermometers / SIKA thermometers

Inspection is performed by comparison of the temperature measured by the test piece and the block temperature indicated by the calibrator / calibration bath.

Temperature switches / thermostats

The test piece is inserted into the block and connected to the external transducer. The switch setting respective to the switch point is signalled by reached temperature.

Resistance thermometers and thermocouples

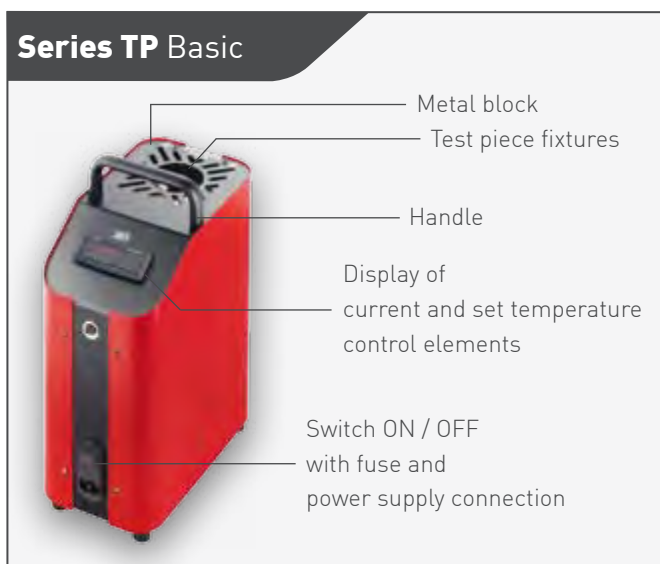
The inspection is performed by comparison of the temperature indicated on the external measuring instrument with the reference temperature of the calibrator or calibration bath.

Description

The calibrators of series TP Basic contain an electrically controlled metal block with a bore for the insertion of the test piece. Adapter sleeves are used for test pieces with smaller diameter. The block is mounted in a heat insulated housing.

The complete electronic is located in the front of the calibrator. The required temperature is easily set on the digital controller. The current temperature will automatically be adjusted to the set value. The current temperature and set temperature are constantly shown on the 2-line, 4-digit, 7-segment LED display.

For calibration of indicators and loops, mono- and multifunction simulators are available on the following pages.



Technical data and order code


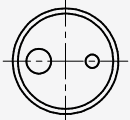

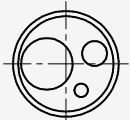

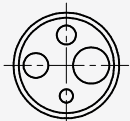

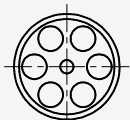

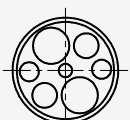

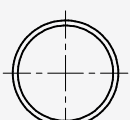


Order codes		
SIKA-Code	EP17160M281503	EP17650M281500
ISSA-Code	61.180.01	61.180.02
IMPA-Code	65 25 07	65 25 08 / 65 25 09
Type	TP 17 165 M	TP 17 650 M
Temperature range*	-35 °C up to 165 °C	Ambient temp. up to 650 °C
Block temperature control	Digital PID controller, automatic fine adjustment with softstart for fan	
Accuracy	±1 °C	±1 °C
Stability	±0.1 °C	
Block temperature display	4-digit, 2-line, 7-segment LED, 7 mm high, red and green	
Display range	-50.0 °C up to 165.0 °C	0.0 °C up to 650.0 °C
Resolution	1 °C	
Test piece fixture		
Block material	Aluminium	Brass
Block bore	Ø 28 mm	Ø 28 mm
Block depth	150 mm	
Adapter sleeves	Inside diameter between 1.5 mm and 25 mm in steps of 0.5 mm	
General data		
Power supply	100...240 VAC, 50 / 60 Hz	230 / 240 VAC, 50 / 60 Hz
Power consumption	Approx. 375 W	Approx. 1000 W
Dimensions L x W x H	Approx. 210 x 380 + 50 x 300 mm	Approx. 150 x 330 + 70 x 270 mm
Weight	Approx. 10.0 kg	Approx. 7.5 kg
Options		
Accessories	Aluminium transport case	Aluminium transport case, nylon service case
Power supply		100...115 VAC, 50 / 60 Hz 100...240 VAC, 50 / 60 Hz
Certificates	DAkS-Certificates, SIKA works certificate	
Engineering unit	Display of temperature in °F	

* At an ambient temperature of 20 °C / 68 °F

Adapter Sleeves - standard configurations

Our adapter sleeves are designed for use with SIKA dry block calibrators. The sleeves are configured with various diameter bores to accommodate industry standard temperature sensors. We provide several standard configurations for quick delivery.

Standard	SIKA-USA Part Number	Dimensions
Adapter sleeves Ø 28 mm	"SLEEVEDB28150 - _"	Bores
 	SLEEVEDB28150 - A	1x 3.5 mm (1/8 in.) 1x 6.5 mm (1/4 in.)
 	SLEEVEDB28150 - B	1x 3.5 mm (1/8 in.) 1x 6.5 mm (1/4 in.) 1x 13.5 mm (1/2 in.)
 	SLEEVEDB28150 - C	1x 3.5 mm (1/8 in.) 1x 5.0 mm (3/16 in.) 1x 6.5 mm (1/4 in.) 1x 9.5 mm (3/8 in.)
 	SLEEVEDB28150 - D	1x 3.5 mm (1/8 in.) 6x 6.5 mm (1/4 in.)
 	SLEEVEDB28150 - E	1x 3.5 mm (1/8 in.) 2x 5.0 mm (3/16 in.) 2x 6.5 mm (1/4 in.) 2x 9.5 mm (3/8 in.)
 	SLEEVEDB28150 - X	Blank sleeve



For other configurations - consult factory