



# Service Temperature Calibrators



## Series TP 18 000 E and TP 17 000 M



## Service Temperature Calibrators, Series TP 18 000 E and TP 17 000 M

# The professional solution for the servicing sector

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

Regular inspection of the temperature sensors is used in these applications absolutely essential for economic and technical-safety reasons and is already prescribed as obligatory in many sectors.

The SIKA service temperature calibrators, type-tested by Germanischer Lloyd (GL), are approved for use on sea-going ships and inland waterway vessels and in the offshore area.



GL No. 11297-98 HH

### Temperature calibrators for applications in the:

- Shipping industry
- Energy-production and energy distribution sector
- Chemical and petrochemical industry
- Pharmaceutical industry
- Food industry
- And a great deal more

Our service temperature calibrators are already a part of the standard equipment of the service 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".

### Description:

The service temperature calibrators contain an electronically controlled metal block with a bore for the reception of the test piece. Adapter sleeves are used for test pieces with smaller diameter. The block is mounted in a heat insulated housing.

In front of the calibrator are the complete electronic system. The required temperature are set by a digital controller and automatically adjusted to the set value. Block value and set value are constantly shown on the 2-line, 4-digit, 7-segment LED display.

### All concerted



### SIKA service calibrators for inspection of:

#### Thermometers/SIKA industrial 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 will insert 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

A separate temperature measuring instrument is required for inspection. We recommend the use of our temperature measuring device TTScan. The inspection is performed by comparison of the temperature indicated on the external measuring instrument with the reference temperature of the calibrator / calibration bath.



A guarantee of 5 years is granted to all service calibrators which are calibrated and tested at least once per year by the SIKA DKD laboratory.

## Technical data

Device type	TP 17 165 M	TP 18 200 E	TP 17 650 M	TP 18 850 E
				
Temperature range	-30 °C up to +165 °C	Ambient temp. up to +200 °C	Ambient temp. up to +650 °C	Ambient temp. up to +850 °C
Block temperature control	Digital PID controller, automatic fine adjustment with softstart for fan			
Tolerance	±1 °C			
Stability	±0.1 °C			
<b>Display</b>				
Block temperature display	4-digit, 2-line, 7-segment LED, 7 mm high, red and green			
Display range	-50 °C up to +165 °C	0 °C up to +200 °C	0 °C up to +650 °C	0 °C up to +850 °C
Resolution	1 °C			
<b>Test piece fixture</b>				
Block material	Aluminium	Aluminium	Brass	HT-alloy
Block bore	Ø 28 mm	Ø 18 mm	Ø 28 mm	Ø 18 mm or 28 mm
Block depth	150 mm	100 mm	150 mm	100 mm or 200 mm
Adapter sleeves	Inside diameter 1.5 mm up to 15.5 mm (up to 25 mm for block bore Ø 28) in steps of 0.5 mm			
<b>General data</b>				
Power supply	90...240 VAC, 50/60 Hz	230 VAC, ±10 %, 50/60 Hz		
Power consumption (app.)	400 VA	220 VA	1000 VA	2000 VA
Dimensions (app.) L x W x H (mm)	210 x 380+50 x 300	220 x 230+50 x 96	150 x 330+70 x 270	430 x 410+50 x 190 430 x 510+50 x 190 (for block depth 200)
Weight (app.)	10 kg	4 kg	7.5 kg	14 kg 16 kg (for block depth 200)
<b>Options</b>				
Accessories	Service and transport case, solid aluminium version, nylon service case			
Power supply	—	115 VAC, ±10 %, 50/60 Hz		—
Certificates	DKD-Certificates acc. guideline DKD-R5-4, SIKA works certificate			
Engineering unit	Display of temperature in °F			

# Our Production and Sales Range



Flow Measurement Equipment



Axial Turbine Flow Sensor



Flow Switches



Pressure Gauges and Pressure Sensors



Industrial Thermometers



Electronic Digital Thermometer, Dial Thermometer



Measuring Instruments



Temperature Sensors



Calibrators, DKD-Laboratory

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...measurement...control...calibration

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Subject to technical modification

