Temperature calibrator TP 17ZERO

TP Solid // Dry block // -10...100 °C // 14 °F...212 °F





Highlights

- · Very easy operation with 4-button control and integrated reference temperature sensor
- · Low weight and stable handle for easy transport
- · Qualified for SIKA Gold Service
- Especially suitable for calibrations at exactly 0 °C (32 °F)

TP Solid

With the temperature calibrators of the TP Solid series, the main focus is on **flexibility**: In addition to **dry block calibrators**, they also include **calibration baths**, with which almost any temperature sensor can be calibrated irrespective of its shape. Both can be operated **easily and intuitively**. When being used as fluid bath calibrator, the temperature sensors are directly immersed into the calibration liquid. This creates a direct temperature link

between the calibrator and the devices under test without insulating air gap. All TP Solid temperature calibrators are additionally equipped with a **serial interface for computer-assisted monitoring** of the calibration process. This flexibility in combination with the easy operation make the TP Solid series ideal for **use in machinery and plant engineering**.

SIKA temperature calibrators

Temperature calibrators are used for the verification of the functionality and calibration of temperature measuring devices and temperature sensors. As the sole German manufacturer of these devices, we develop and produce our "Made in Germany" temperature calibrators with a special focus on long-term reliability and utmost accuracy in combination with easy operation. We can rely on more than 40 years of experience in doing this: SIKA's first dry block temperature calibrator was launched all the way back in 1980.

Every SIKA temperature calibrator is meticulously tested for accuracy and stability. This is attested by our standard calibration certificate, which we issue with every temperature calibrator, or by means of an optional DAkkS calibration certificate [German accreditation body]. This is to guarantee that you receive a perfect product which can be traced back to national and international temperature measurement standards.

SIKA Dr. Siebert & Kühn GmbH & Co. KG Struthweg 7-9 // 34260 Kaufungen // Germany www.sika.net

Features

Easy operation

- The TP 17ZERO can be operated with only four buttons:
 Two arrow buttons for setting the target temperature,
 one button for confirmation and one return button
- Thus, temperatures can be set as easily as, for example, in the air conditioning system in your car
- Any operational errors can be nearly excluded. You do not need any specifically trained staff or time-consuming briefings



SIKA Gold Service

SIKA Gold Service provides a comprehensive service package for the regular recalibration of your temperature calibrator. You will benefit from exclusive savings and discounts as well as special promotions reserved to SIKA Gold Service members.

- You will save 33% in the recalibration of your temperature calibrator
- You will receive a 10% discount on any repairs that may become necessary
- You will receive preferential invitations to product presentations, symposia, practice days and exclusive training offers

Register now and benefit from the SIKA Gold Service: gold-service.sika.net



Technical data

TP 17Zero					
	10 100 10 1 1: 11 1 00 10	1405 01005 1 1: 11 1 (0.05			
Temperature range		14 °F212 °F at ambient temperature 68 °F			
Dimension of the calibration insert	7 bore holes à Ø 6.5 mm x 150 mm				
Dry block					
Display accuracy	±0.05 °C at 0 °C ±0.09 °F at 32 °F				
Temperature stability	±0.05 °C at 0 °C	±0.09 °F at 32 °F			
Resolution of the temperature display	0.1 °C	0.1 °F			
Reference temperature sensor	internal, fixed installation				
Interface	RS485 (calibrator) to USB (PC)				
Connectivity	MODBUS				
Dimensions					
→ Width	150 mm				
→ Height	330 + 70 mm (Handle)				
→ Depth	270 mm				
Weight	Approx. 7 kg				
Power supply	100240 VAC, 50 / 60 Hz				
Power consumption	Approx. 225 W				
Display					
Display	2-line, 4-digit digital display red / green, unit °C	;/°F			
Approvals					
	C E ROHS REACH	EUL CA			

Article numbers

1. Calibrator					
Temperature rai	nge	Function	Calibration insert [mm]	Power supply	Article number
-10100 °C	14212 °F	Dry block	7x Ø 6.5	230 V	EP171000B71503

2. Calibration certificate - Select your calibration certificates as needed Each calibrator is already delivered with a standard calibration certificate (3 test points).	Article number
SIKA works calibration certificate (similar to standard calibration certificate, 6 test points)	EKTPWP1FKT
DAkkS calibration certificate (3 test points + measurement uncertainty determination)	EKTPDAKKS1FKT
Each additional test point DAkkS calibration certificate	EKTPDAKKSZUSP
SIKA Gold Service works calibration certificate	EKTPGOLDWP
SIKA Gold Service DAkkS	EKTPGOLDDAKKS

3. Accessories	Article number
PC software	EZ99999999971
PC connection cable: temperature calibrator (RS485) to USB	EZ170000000002

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Overview of SIKA temperature calibrators

Our series: Basic. Solid. Premium.

- Dry block calibrators of the TP Basic series impress with their uncomplicated operation and high cost-effectiveness.
 They are particularly suitable for use on ships or in industrial applications.
- Equipped with a PC interface, the dry block calibrators and calibration baths of the TP Solid series cover a wide temperature range with high accuracy.
- For the highest demands on accuracy and flexibility:
 The dry-block and multi-function temperature calibrators of the TP Premium series represent the pinnacle of our technical development. Equipped with an integrated touch screen, a PC interface, an external reference sensor and integrated measuring instrument, this series offers extreme accuracies for all calibration tasks.

Temperature range (RT=Room temperature)	Function	Accuracy		Features	Block dimensions [Ø mm x depth mm]	Туре
-55 °C 200 °C -67 °F 392 °F	Dry block	±0.4 °C	±0.72 °F	TP Basic	28 x 150	TP 17200
	Dry block	±0.2 °C	±0.36 °F	TP Solid	28 x 150	TP 17200S
-0/ F 392 F	Dry block	±0.2 °C	±0.36 °F	TP Premium	28 x 150	TP 37200E.2
-35 °C 155 °C -31 °F 311 °F	Calibration bath	±0.1 °C	±0.18 °F	TP Solid	60 x 170	TP M165S
	Dry block	±1 °C	±1.80 °F	TP Basic	28 x 150	TP 17165M
	Dry block	±0.4 °C	±0.72 °F	TP Basic	28 x 150	TP 17165
	Dry block	±0.2 °C	±0.36 °F	TP Solid	28 x 150	TP 17165S
	Dry block	±0.2 °C	±0.36 °F	TP Premium	28 x 150	TP 37165E.2
-35 °C 165 °C	Dry block ext.	±0.2 °C	±0.36 °F			
-31 °F 329 °F	Dry block int.	±0.3 °C	±0.54 °F			
	Air Shield Insert	±0.099 °C	±0.1782 °F	TP Premium	60 x 170	TP 3M165E.2
	Calibration bath	±0.1 °C	±0.18 °F	TI TICITIIIIII	00 x 170	11 31111032.2
	Infrared	±0.5 °C	±0.9 °F			
	Surface	±1 °C	±1.88 °F			
-30 °C 165 °C	Dry block	±0.4 °C	±0.72 °F	TP Basic	60 x 150	TP 17166
-22 °F 329 °F	Dry block	±0.2 °C	±0.36 °F	TP Solid	60 x 150	TP 17166S
-10 °C 100 °C 14 °F 212 °F	Dry block	±0.05 °C	±0.09 °F	TP Solid	7 x 6.5 x 150	TP 17Zero
RT 200 °C RT 392 °F	Dry block	±1 °C	±1.80 °F	TP Basic	18 x 150	TP 18200E
	Calibration bath	±0.2 °C	±0.36 °F	TP Solid	60 x 170	TP M255S
RT 255 °C RT 491 °F	Dry block ext. Dry block int. Air Shield Insert Calibration bath, tub insert, ext. Calibration bath, tub insert, int. Calibration bath, direct filling, ext. Calibration bath, direct filling, int. Infrared Surface	±0.25 °C ±0.5 °C ±0.08 °C ±0.35 °C ±0.53 °C ±0.18 °C ±0.46 °C ±0.5 °C ±1 °C	±0.45 °F ±0.9 °F ±0.144 °F ±0.63 °F ±0.954 °F ±0.324 °F ±0.828 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 170	TP 3M255E.2
	Dry block	±0.6 °C	±1.08 °F	TP Basic	60 x 150	TP 17450
RT 450 °C RT 842 °F	Dry block	±0.3 °C	±0.54 °F	TP Solid	60 x 150	TP 17450S
	Dry block Air Shield Insert Infrared Surface	±0.3 °C ±0.2 °C ±0.5 °C ±1 °C	±0.54 °F ±0.36 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 150	TP 37450E.2
	Dry block	±1 °C	±1.8 °F	TP Basic	28 x 150	TP 17650M
RT 650 °C	Dry block	±0.8 °C	±1.44 °F	TP Basic	28 x 150	TP 17650
RT 1202 °F	Dry block	±0.4 °C	±0.72 °F	TP Solid	28 x 150	TP 17650S
RT 700 °C	Dry block	±0.43 °C	±0.744 °F			
RT 1292 °F	Air Shield Insert	±0.27 °C	±0.486 °F	TP Premium	29 x 150	TP 37700E.2
RT 850 °C RT 1562 °F	Dry block	±1 °C	±1.8 °F	TP Basic	18 x 100	TP 18850E
400 °C 1300 °C 752 °F 2372 °F	Dry block	±2 °C	±3.6 °F	TP Solid	28 x 200	TP 281300E

Subject to technical modifications and errors

