Temperature calibrator TP 17450

TP Basic // Dry block // Room temperature...450 °C // RT...842 °F



TP 17450

Highlights

- Very easy operation with 4-button control and integrated reference temperature sensor
- Low weight and stable handle for easy transport
- Optional accessory: Transport case with or without trolley
- Particularly suitable for the simultaneous calibration of many devices under test in the medium temperature range up to 450 °C (842 °F)

TP Basic

The temperature calibrators of the TP Basic series are characterised by their **efficiency and portability**. The series consists of dry block calibrators covering a wide temperature range and are used on site, e.g. in **marine applications**.

The easy operation, the integrated internal reference temperature sensor and the dry block calibration function ensure an **extremely easy calibration process**.

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.

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Features

Easy operation

- The TP 17450 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



5-Year Warranty:
Low Maintenance, Comprehensive Service!

With regular service and adherence to the SIKA recalibration recommendation, you receive a 5-year warranty.

- Instead of annual recalibration, recalibration is only necessary every 500 operating hours or every three years thanks to long-lasting SIKA technology.
- This results in only 1/3 of the usual maintenance costs.
- Significant reduction in the total cost of ownership.



Technical data

TP 17450		
Temperature range	Room temperature...450 °C	Room temperature...842 °F
Dimension of the calibration insert	Ø 60 x 150 mm (calibration insert easily exchangeable)	
Dry block		
Accuracy	±0.6 °C	±1.08 °F
Temperature stability	±0.1 °C	±0.18 °F
Resolution of the temperature display	0.1 °C	0.1 °F
Reference temperature sensor	internal, fixed installation	
Dimensions		
→ Width → Height → Depth	150 mm 330 + 70 mm (Handle) 270 mm	
Weight	Approx. 7.5 kg	
Power supply	230...240 VAC, 50 / 60 Hz	
Power consumption	Approx. 2000 W	
Display		
Display	2-line, 4-digit digital display red / green, unit °C / °F	
Approvals		

Article numbers

To order a complete calibrator, you need two article numbers:

1. Calibrator
2. Calibration insert

In addition, depending on your individual calibration requirements, you can order additional calibration inserts, necessary certificates and other accessories.

1. Calibrator					
Temperature range		**Function**	**Calibration insert [mm]**	**Power supply**	**Article number**
Room temperature...450 °C	RT...842 °F	Dry block	Ø 60 x 150	230 V	EP174500601500

2. Calibration insert				
Bore holes [mm]	**Function**	**Calibration insert [mm]**	**Material**	**Article number**
1x Ø 3.5, 1x Ø 6.5, 1x Ø 8.5, 1x Ø 10.5	Dry block	Ø 60 x 150	Brass	EZ15060B04MS01
2x Ø 3.5, 2x Ø 4.5, 2x Ø 6.5, 2x Ø 8.5, 2x 10.5	Dry block	Ø 60 x 150	Brass	EZ15060D10MS80
3x Ø 3.5, 3x Ø 6.5, 3x Ø 8.5, 3x 10.5	Dry block	Ø 60 x 150	Brass	EZ15060D12MS82
2x Ø 3.5, 1x Ø 4.5, 1x Ø 5.0, 1x 5.5, 1x Ø 6.5, 1x Ø 8.5, 1x Ø 9.0, 1x Ø 9.5, 1x Ø 10.5	Dry block	Ø 60 x 150	Brass	EZ15060D10MS84
Without bore holes	Dry block	Ø 60 x 150	Brass	EZ15060B00MS06
Calibration insert incl. 1 bore hole of choice	Dry block	Ø 60 x 150	Brass	Please indicate bore holes in the order
Each additional bore hole	Dry block	Ø 60 x 150	Brass	

3. Calibration certificate - Select your calibration certificates as needed Each calibrator is already delivered with a standard calibration certificate (6 test points).	Article number
SIKA works calibration certificate (similar to standard certificate + marking on the calibrator)	EKWPEPLIKDBI
DAkkS calibration certificate (3 test points + measurement uncertainty determination)	EKDAKKSEPLIKDBI
Each additional test point DAkkS calibration certificate	EKTPDAKKSZUSP

4. Accessories	Article number
Transport case without trolley	EZTPKOFFER20
Transport case with trolley	EZTPKOFFER20TG
Transport bag	XE2193

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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]	Type
-50 °C ... 200 °C -58 °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
	Dry block	±0.1 °C	±0.18 °F	TP Premium	28 x 150	TP 37200E.2
-35 °C ... 165 °C -31 °F ... 329 °F	Dry block	±1 °C	±1.8 °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	±0.1 °C	±0.18 °F	TP Premium	28 x 150	TP 37165E.2
-30 °C ... 155 °C -22 °F ... 311 °F	Calibration bath	±0.1 °C	±0.18 °F	TP Solid	60 x 170	TP M165S
-30 °C ... 165 °C -22 °F ... 329 °F	Dry block	±0.4 °C	±0.72 °F	TP Basic	60 x 150	TP 17166
	Dry block	±0.2 °C	±0.36 °F	TP Solid	60 x 150	TP 17166S
	Dry block Air Shield Insert Calibration bath Infrared Surface	±0.1 °C ±0.07 °C ±0.19 °C ±0.5 °C ±1 °C	±0.18 °F ±0.126 °F ±0.342 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 170	TP 3M165E.2
-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	±1.8 °F	TP Basic	18 x 150	TP 18200E
RT ... 255 °C RT ... 491 °F	Calibration bath	±0.2 °C	±0.36 °F	TP Solid	60 x 170	TP M255S
	Dry block Air Shield Insert Calibration bath Infrared Surface	±0.25 °C ±0.08 °C ±0.18 °C ±0.5 °C ±1°C	±0.45 °F ±0.144 °F ±0.324 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 170	TP 3M255E.2
RT ... 450 °C RT ... 842 °F	Dry block	±0.6 °C	±1.08 °F	TP Basic	60 x 150	TP 17450
	Dry block	±0.3 °C	±0.54 °F	TP Solid	60 x 150	TP 17450S
	Dry block Air Shield Insert Infrared Surface	±0.25 °C ±0.2 °C ±0.5 °C ±1 °C	±0.45 °F ±0.36 °F ±0.9 °F ±1.8 °F	TP Premium	60 x 150	TP 37450E.2
RT ... 650 °C RT ... 1202 °F	Dry block	±1 °C	±1.8 °F	TP Basic	28 x 150	TP 17650M
	Dry block	±0.8 °C	±1.44 °F	TP Basic	28 x 150	TP 17650
	Dry block	±1.2 °C	±2.16 °F	TP Basic	13.5 x 110	TP Basic Marine
	Dry block	±0.4 °C	±0.72 °F	TP Solid	28 x 150	TP 17650S
RT ... 700 °C RT ... 1292 °F	Dry block Air Shield Insert	±0.43 °C ±0.27 °C	±0.744 °F ±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

Subject to technical modifications and errors

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