

# Temperature calibrator TP Basic Marine

TP Basic // Dry block // RT...650 °C // RT...1202 °F



TP Basic Marine



## Highlights

- Optimized for the requirements of the marine market
- Extremely competitive
- Smaller, lighter and technically better than all other comparable models on the market

## 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.

# Features

## Easy operation

- The TP Basic Marine can be operated with only three buttons: Two arrow buttons for setting the target temperature and one button for confirmation.
- 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



## Small block with particularly small calibration inserts

- The TP Basic Marine has a small block that provides extremely fast heat-up and cool-down times thanks to its low thermal mass. This saves time and money with every calibration process
- The particularly small calibration inserts are specially designed for temperature sensors in the marine sector. They are available with two different borehole sizes as standard: Ø 3.5 mm and 6.5 mm. For Ø 13.5 mm, the calibrator is simply operated without a sleeve. These sizes cover most temperature sensors in the marine sector. Customised borehole sizes are also available. The small size of the calibration inserts enables cost savings on accessories.

## 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](http://gold-service.sika.net)



# Technical Data

TP Basic Marine	
Temperature range	RT...650 °C RT...1202 °F
Dimension of the calibration insert	Ø 13.5 x 110 mm (Calibration insert easy to replace)
Dry block	
Accuracy	±1.2 °C ±2.16 °F
Temperature stability	±0.2 °C 0.36 °F
Resolution of the temperature display	0.1 °C 0.1 °F
Temperature units	°C / °F
Reference temperature sensor	internal, fixed installation
Dimensions	
→ Width	127 mm
→ Height	274 + 50 mm (Handle)
→ Depth	272 mm
Weight	Approx. 5.1 kg
Power supply	115 V or 230 V Nominal voltage (two variants)
Power consumption	Approx. 650 W
Display	
Anzeige und Bedienung	2.4 inch color display, operation via three capacitive keys
Approvals	
	DNV approval pending

## Article numbers

Temperature Calibrator		
Type	Power supply	Article number
TP Basic Marine	230 V	EPMA650M131100
TP Basic Marine	115 V	EPMA650M131102

Calibration insert				
Bore holes [mm]	Function	Calibration insert [mm]	Material	Article number
Without bore hole	Dry block	Ø 13	Brass	EZ11013000MS01
1x Ø 3.5	Dry block	Ø 13	Brass	EZ11013035MS01
1x Ø 5.0	Dry block	Ø 13	Brass	EZ11013050MS01
1x Ø 6.5	Dry block	Ø 13	Brass	EZ11013065MS01
1x Ø 8.5	Dry block	Ø 13	Brass	EZ11013085MS01
1x Ø 9.5	Dry block	Ø 13	Brass	EZ11013095MS01
1x Ø 10.5	Dry block	Ø 13	Brass	EZ11013105MS01
1x Ø 11.5	Dry block	Ø 13	Brass	EZ11013115MS01
Calibration insert incl. 1 bore hole of choice	Dry block	Ø 13	Brass	Please indicate bore hole in the order

Calibration certificate - Select your calibration certificates as needed	Article number
Each calibrator is already delivered with a standard calibration certificate (6 test points).	
SIKA works calibration certificate (similar to standard calibration certificate + marking on the calibrator)	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

Accessories	Article number
Transport bag	XE2422

# 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		
-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	
	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	
-35 °C ... 165 °C -31 °F ... 329 °F	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	
	Dry block ext. Dry block int. Air Shield Insert Calibration bath Infrared Surface	±0.2 °C ±0.3 °C ±0.07 °C ±0.1 °C ±0.5 °C ±1 °C	±0.36 °F ±0.54 °F ±0.126 °F ±0.18 °F ±0.9 °F ±1.88 °F	TP Premium	60 x 170	TP 3M165E.2	
	-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	
-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	
RT ... 255 °C RT ... 491 °F	Calibration bath	±0.2 °C	±0.36 °F	TP Solid	60 x 170	TP M255S	
	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	
	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	
	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