

Dry-Block Calibrator

Model 43350



43350 EN

- Temperature ranges 20 °C above ambient temperature to 350 °C
- Tolerance ± 1 °C (100 °C ... 300 °C)
 ± 0.5 °C < 100 °C
- Stability ± 0.1 °C to 100 °C
- Resolution 0.1 °C

Application

The model 43350, a temperature controlled metal block calibrator, is especially designed for the calibration of industrial thermometers.

Particularly advantageous is the rate of heating and cooling and the portability.

A typical application is checking the accuracy of industrial manufactured temperature sensors.

Description

At this calibrator, the desired temperature can be set easily and quickly. Moreover, the device has a separate switch for the heater, for rapid cooling and an over-temperature switch.

The device comes in two versions with fixed blocks with 4 x 6 mm- and 1 x 10 mm-, 1 x 8 mm-, 1 x 6 mm-, 1 x 4.5 mm- and 1 x 3 mm-drilling.

In order to meet the conditions of ISO 9000 the block allows the simultaneous acceptance of the to sensors to be calibrated and a calibrated reference thermometer with a traceability to the national standards.

Technical Data

Temperature range:	20 °C above ambient to 350 °C		
Operating temperature range:	10 °C ... 30 °C		
Heat up 20 °C to 300 °C:	5.2 minutes (230 V version only)		
Cool down 300 °C to 100 °C:	10.8 minutes		
Stability (to 10 minutes):	± 0.1 °C	at	100 °C
	± 0.15 °C	at	200 °C
	± 0.5 °C	at	< 100 °C
Accuracy:	± 1.0 °C		100 to 300 °C

Remark:
The specification of accuracy relate to a measurement on the ground of the fixed unit block.

Display resolution: 0.1 °C

Inserts:
V001- 4 drillings with 6 mm ø
V002- 5 drillings with 10 mm ø
8 mm ø, 6 mm ø, 4.5 mm ø
and 3 mm ø

Drilling depth: approx. 95 mm

Fan: automatic

Weight: 1.5 kg

Dimensions (H x W x D): 72 x 128 x 178 [mm], excluding handle

Power excitation: 230V 50/60 Hz 2A or 120 V, 50/60 Hz 4 A

Power consumption: 400 W

Order Information

Temperature Calibrator

with inserts 4 x 6 mm ø

Model 43350-V001

with inserts 1 x 10, 1 x 8, 1 x 6, 1 x 4.5 and 1 x 3 mm ø

with test certificate

Model 43350-V002

Manufacturer Calibration

for temperature calibrators series 43350;

3 temperature points

Model 43WKS-43350

Accessories (To improve the uncertainty)

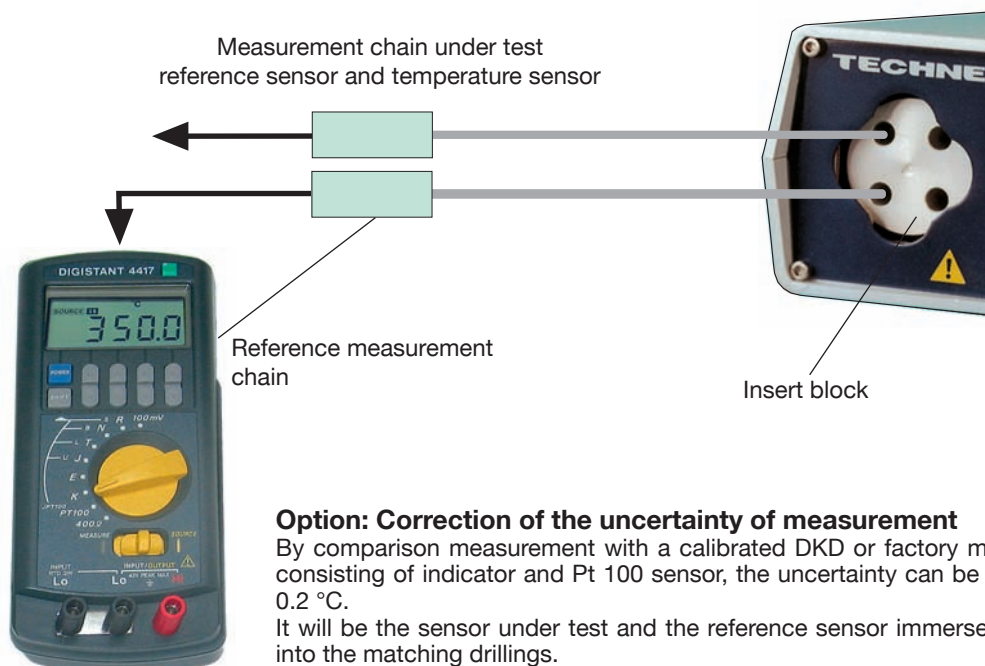
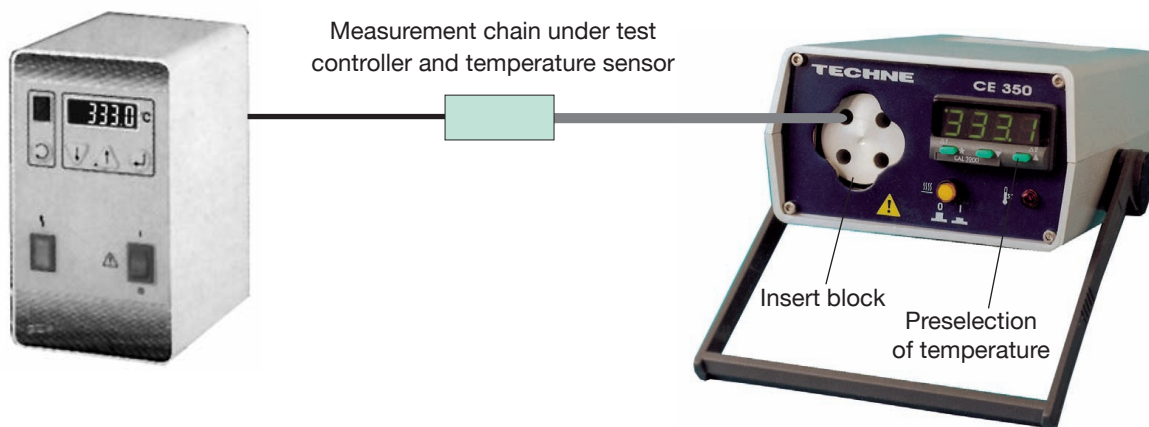
Pocket temperature calibrator
for Pt100 sensor

Model 4417

Temperature sensor, Pt100,
class A, 2 m cable, tin-plated wire ends

Model 4192

Applications: Testing of a measurement chain, consisting of a controller and a thermometer sensor.



Option: Correction of the uncertainty of measurement

By comparison measurement with a calibrated DKD or factory measuring chain, consisting of indicator and Pt 100 sensor, the uncertainty can be improved up to 0.2 °C.

It will be the sensor under test and the reference sensor immersed simultaneous into the matching drillings.