

Dry well temperature calibrator

Model CTD9100-375

WIKA data sheet CT41.32

Applications

- Testing and calibration of temperature measuring instruments
- Reference instrument for works' laboratories for the calibration of thermometers
- On-site calibration

Special features

- High accuracy and stability
- Possibility for testing temperature switches
- Low weight and compact design
- Simple operation



Dry well temperature calibrator model CTD9100-375

Description

Versatile in application

Nowadays, fast and simple testing of thermometers is a "must", especially when it involves the reliability of operation of plant and machinery.

The portable calibrators of the CTx9100 family are particularly suited to local calibration tasks. They are extremely user-friendly. Due to their compact design and their low weight, the devices can be carried and used almost anywhere.

The CTD9100-375 is most notable for its rugged case and very small dimensions.

This new instrument concept combines a stable heat source with precision Pt100 temperature measurement. Thus industrial temperature sensors can be calibrated even more efficiently. Regular monitoring of temperature sensors helps to recognise failures promptly and shorten downtimes.

Easy to use

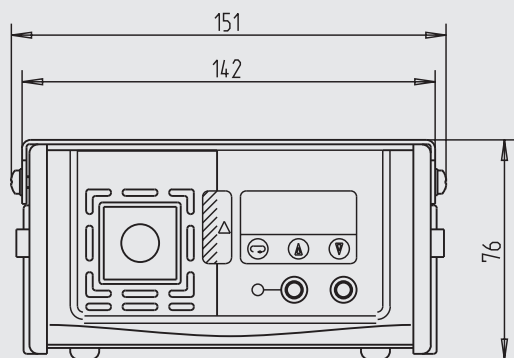
The CTD9100 series of dry well temperature calibrators work with temperature-controlled metal blocks and interchangeable inserts.

The calibration temperature, adjusted simply via two keys on the controller, can be very quickly controlled. The actual temperature of the heated block is displayed simultaneously on a large, 4-digit, high-contrast LED display. Thus reading errors are virtually eliminated.

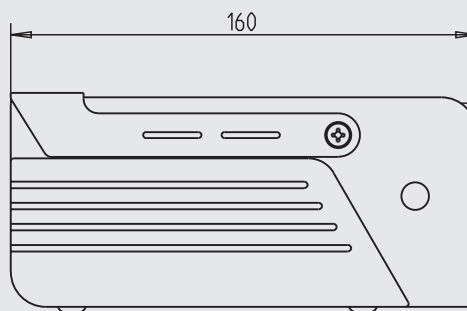
Thermometers with different diameters can be fitted into the calibrator using inserts, drilled to suit. A new block design, with improved temperature homogeneity at the calibrator's lower range, leads to smaller measurement uncertainties.

Dimensions in mm

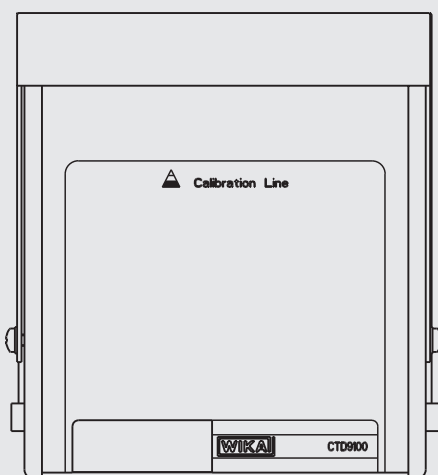
Front view



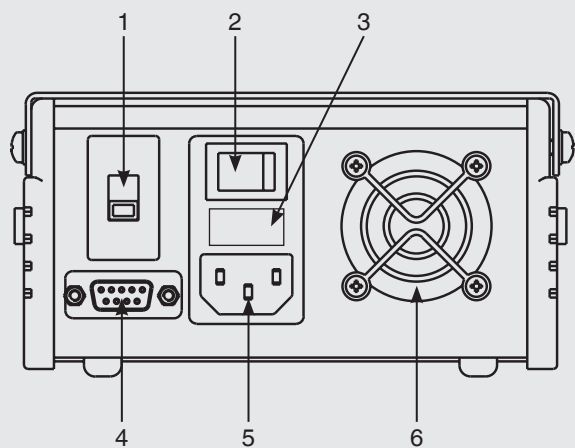
Side view



Top view



Rear



- 1 Voltage selector
- 2 ON/OFF Switch
- 3 Fuse
- 4 RS-232 Interface
- 5 Power connection
- 6 Fan

Specifications**Model CTD9100-375**

Temperature range	°C	t _{amb} ... 375
Accuracy	K	± 0.5 ... 0.8
Stability		± 0.05 K up to 100 °C
Display resolution	°C	0.1
Heating time		6 min; from 20 to 300 °C
Cooling time		14 min; from 300 to 60 °C
Immersion depth	mm	100
Insert dimensions	mm	Ø 13 x 100
Interface		RS-232
Power supply	AC	230 V, 50/60 Hz or 110 V, 50/60 Hz
Power consumption	VA	250
EMC		Tested to 2004/108/EC, EN 61326 Emission (Group 1, Class B) and immunity (industrial locations)
Dimensions (W x H x D)	mm	149 x 74 x 155
Weight	kg	1.7

Layout and controls



- 1 Handle
- 2 Display
- 3 Controls
- 4 Insert with opening for probe
- 5 Connectors for temperature switch testing

Scope of delivery

- Dry well temperature calibrator
- Power cord, 1.5 m with safety plug
- Insert with 6.2 mm bore
- Insert replacement tools
- Operating Instructions
- 3.1 calibration certificate per DIN EN 10204

Accessories

- Inserts, undrilled and drilled to specification
- Transport case
- Power cord for Switzerland
- Power cord for USA/Canada

Options

- DKD/DAkkS calibration certificate

Ordering information

Model / Type of certificate / Transport case / Power cord / Additional ordering information

© 2009 WIKA Alexander Wiegand SE & Co. KG, all rights reserved.
The specifications given in this document represent the state of engineering at the time of publishing.
We reserve the right to make modifications to the specifications and materials.



WIK A Alexander Wiegand SE & Co. KG
Alexander-Wiegand-Straße 30
63911 Klingenberg/Germany
Tel. (+49) 9372/132-0
Fax (+49) 9372/132-406
E-mail info@wika.de
www.wika.de