QUARTZ T

PORTABLE TEMPERATURE CALIBRATOR -50/+150°C



The new **QUARTZ T** are compact portable temperature calibrators for laboratory and field testing of temperature sensors, thermocouples and RTD sensors.

They are equipped with an Anticorodal block with a 35 mm diameter hole and 135 mm depth in which the reduction inserts are housed; the interchangeability of the insert makes possible to test sensors of various lengths and diameters.

The equalizing block is heated and cooled by static Peltier thermoeletric modules.

They are equipped with a new 32-bit PID microprocessor-based controller with resolution up to 0.001 °C, unit setting in °C °F and K, programming of ascent/descent ramps and storage of the thermostats' operative temperature.

The new **QUARTZ T** series of calibrators is equipped with an innovative touch-sensitive display, where the various icons are graphically displayed, making it easier to select different instrument settings.

The new **QUARTZ T** are also available in the **3I version**, in which the instruments are equipped with an acquisition card

having three configurable input to be able to connect all types of sensors:

- EXT and REF to be able to connect thermocouples type B, E, J, K, N, R, S, T and RTDs type PT100, PT1000
- ANALOG for probes with 0-10V or 4-20 mA output

The REF input is provided for the reference sample probe, thus obtaining a complete calibration system which can be certified by Accredia centres, in compliance with ISO 9000 regulations. The EXT input is provided for probes that are being tested; hence, the instrument can display the temperature of the well, the temperature of the sensor to be checked and the temperature of the reference sample probe, at the same time.

The **QUARTZ T** are equipped with B type USB serial interface to operate in automatic mode connected to the PC by means of the Aq2Sp2 software which is capable to automate control procedure and allows to print reports, so they are easily traceable in compliance with ISO 9000 standards.

APPLICATIONS:

- Control and calibration of temperature sensors, in laboratory and in field, in accordance with ISO 9000 standards
- Control of thermostats
- Automatic computercontrolled calibrations

MAIN CHARACTERISTICS:

- Operating range:
 -50°C (-58°F)/
 +150°C (302°F)
- · 2 different models
- Hight stability and precision
- Touch Screen Display
- Display risolution up to 0.001
- Light weight and compactness
- Multi-hole inserts available
- Automatic ramp function
- USB connection



Standard Equipments:

- Calibrator QUARTZT/+T
- Electric power cable
- Kit of fuses
- Thermostat connection cables
- Instruction manual
- Test report
- Tweezers for insert removing
- 2D1191: 6 holes insert (Ø 3.5 - 4.5 - 5.5 - 6.5 - 8.5 -10.5 mm)
- USB serial interface
- Kit of clamp connection (only 3I version)

The calibrators are supplied a standard insert, but various inserts with custom holes are also available, as well as an insert for calibrating optical pyrometers. (Code 2D3080).

Accessories on demand:

- Insert with customizable holes
- Ag2Sp2 software
- ACCREDIA certificate (only 3I version) performed with sample probe connected to QUARTZT/+T
- Pt 100 sample probe
- USB cable
- Cordura® soft bag
- Aluminium case



Touch Display

Touch-sensitive with display graphic visualisation of various functions allowing the various functions to be activated intuitively without having to consult the user manual.

The new 32-bit microprocessorbased PID controller allows a resolution down to 0.001 °C.



Cordura® Soft Bag

Code: 2TRMBAG-FLUID

Dimensions: 410X220X380 mm

Weight: 1.450 kg Packaging dimensions: 600x370x500 mm

Pratical and sturdy Cordura® bag with two side pockets for inserts, a front pocket for documents, shoulder carrying strap; particularly lightweight, it is suitable for carryng and protecting the calibrator with its inserts.



Aluminium case

Code: 2DC505-000

Dimensions: 450x280x380 mm

Weight: 4.8 Kg

Packaging dimensions: 600x370x500 mm

Sturdy aluminum case that provides maximum safety for carrying the instrument.





Insert code: How to order:

Standard Version

Specifications

Temperature range*

Dysplay accuracy**

Units of measure

Display resolution

Mean heating time

Mean cooling time

Stability ***

A xial uniformity

Hole diameter

Insert material

Swich test, voltage

Adjustable ramp

function

PC interface

External probes

Automatic calibration

Calibrator weight with

standard equipment

Operating voltage

Electric power

Calibrator size

Hole depth

measured from the

bottom up to 60 mm

(stabilization included)

(stabilization included)

Display

OUARTZT-00-1 QUARTZ+T-00-1 115V 50/60 Hz **OUARTZT-00-2**

QUARTZ+T-00-2

230V 50/60 Hz

Version with 3 configurable input

QUARTZT-3I-1

QUARZ+T-3I-1 115V 50/60 Hz **QUARTZT-3I-2** OUARTZ+T-3I-2 230V 50/60 Hz

• 2D1192

blind insert

2DC567

DN 34.7x135 mm with special holes 1÷3 holes

• INS.SPEC-633-6

insert

SCREEN TOUCH ±0.15℃ full temperature range

QUARTZ+T

-50℃÷+120℃

17 min from Amb to 120℃

37 min from Amb. to -45℃

+0.03℃

+0.0.1%

°C/°F/K

0.19 0.019 0.001°C

COMPARATIVE TABLE

QUARTZT

-30℃÷+150℃

28 min from 20 to 140°C

23 min from 20 to -25℃

35 mm

135 mm

Antico rodal

On/Off 4.5 Vdc

from a min 0. 1°C/min

B type USB

Pt100 at 3/4 wires, Pt1000 - J,K,N,R,S,E,T,B

Thermocouples - Sensors with 4-20 mA or 0-10V output

on 5 points

115 or 230 VAC 50/60 HZ

400W

350W

160x350x360 mm

9.3 Kg

Values measured at room temperature +20°C Temperature deviation between the display and the reference probe

*** Maximum temperature difference at a stable temperature over 30 minutes

• INS.SPEC-633-10 insert

DN 34.7x135 mm

with special holes

DN 3.5 ÷20 mm.

DN 35x135 mm with

7÷10 holes

• 2D3080

black body

hole 26 mm.

• 3D3223

Pt 100 DN3

black body probe

DN 34.7x135 mm.

2 holes insert DN 34.7x135 mm; 6.5 e 19.5 mm

• INS.SPEC-633-3

insert

DN 3.5 ÷20 mm.

DN 34.7x135 mm with special holes

4÷6 holes

DN 3.5 ÷20 mm.

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CERTIFICATION:

All instruments are supplied with final testing, stability and accuracy report traceable to Accredia standards.

