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 touchsensitive 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



ACCESSORIES

Standard Equipments:

- Calibrator QUARTZT/+T
- Electric power cable
- Kit of fuses
- Thermostat connection cables
- Instruction manual
- Test report
- Tweezers for insert removina
- 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 with a standard insert, but various inserts with custom holes are also available, as well as an calibrating optical insert for pyrometers. (Code 2D3080).

Touch Display

Touch-sensitive display with graphic visualisation of the 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 Weiaht: 1.450 ka 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.



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









CERTIFICATION:

All instruments are supplied with final testing, stability and accuracy report traceable

to Accredia standards.

COMPARATIVE TABLE

Specifications	QUARTZT	QUARTZ+T
Temperature range*	-30℃ ÷+ 150℃	-50℃÷+120℃
Display	SCREEN TOUCH	
Dysplay accuracy**	±0.15℃ full temperature range	
Units of measure	°C/F/ K	
Display resolution	0. 19 0.0 19 0.00 1°C	
M ean heating time (stabilization included)	28 min from 20 to 140℃	/
Mean cooling time (stabilization included)	23 min from 20 to -25℃	1
Stability ***	±0.03℃	
Axial uniformity measured from the bottom up to 60mm	±0.0 fC	
Hole diameter	35 mm	
Hole depth	135 mm	
Insert material	Anticorodal	
Swich test, voltage	On/Off 4.5 Vdc	
Adjustable ramp function	from a min 0. 1°C/min	
PC interface	B type USB	
External probes	Pt100 at 3/4 wires, Pt1000 - J,K,N,R,S,E,T,B Thermocouples - Sensors with 4-20 mA or 0-10V output	
Automatic calibration	on 5 points	
Operating voltage	115 or 230 VAC 50/60 HZ	
Electric power	350W	400W
Calibrator size	160x350x360 mm	
Calibrator weight with standard equipment	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

How to order:

OUARTZT-00-1

115V 50/60 Hz

Version with 3

QUARTZT-3I-1

QUARZ+T-3I-1

QUARTZT-3I-2

OUARTZ+T-3I-2

GIUSSANI

115V 50/60 Hz

230V 50/60 Hz

configurable input

QUARTZT-00-2

QUARTZ+T-00-2 230V 50/60 Hz

QUARTZ+T-00-1

Standard Version

Insert code:

• INS.SPEC-633-10

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

insert

• 2D1192 blind insert

DN 34.7x135 mm. • 2DC567 2 holes insert

DN 34.7x135 mm; 6.5 e 19.5 mm

• INS.SPEC-633-3 insert DN 34.7x135 mm with special holes

1÷3 holes DN 3.5 ÷20 mm.

• INS.SPEC-633-6 insert

DN 34.7x135 mm with special holes 4÷6 holes DN 3.5 ÷20 mm.

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