FLUID 200 T

PORTABLE TEMPERATURE CALIBRATOR T.Amb./+250°C





The new **FLUID200T** are portable thermostatic liquid calibrators used for checking thermocouples, platinum resistance and glass thermometers in the laboratory as well as in the field.

It consists of an aluminium liquid bath whose capacity is about 400 cc and it is constantly kept homogeneous by a magnetic mixer whose speed is adjustable according to the viscosity of the fluid used.

Low-temperature models with subzero field do not employ external cooling fluids; the equalization block is heated and cooled by a static Peltier cell system.

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 ascendent/ descendent ramps and storage of the thermostats operative temperature.

The new **FLUID200T** 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 **FLUID200T** are also available in the **3I version**, in which the instruments are

equipped with an acquisition card having three configurable inputs 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 calibrators 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 allow to print reports, so they are easily traceable in compliance with ISO 9000 standards.

APPLICATIONS:

- Control and calibration of temperature sensors, in the laboratory and in the field, in accordance with ISO 9000 standards
- Control of thermostatas
- Control of glass thermometers
- Automatic computercontrolled calibrations

MAIN CHARACTERISTICS:

- Operating range T.Amb /250°C T.Amb/+482°F
- 2 different models
- Hight stability and precision
- Screen Touch Display
- Display risolution up to 0.001
- Light weight and compactness
- Holder for sensors under test
- Multi-hole inserts available
- · Automatic ramp function
- USB connection



Standard Equipment:

- Bottle 500cc of silicon oil 47V50 (200+T) - 47V20 (200T)
- Closure cap for trasport
- Fluid emptying system
- Hulder for glass thermometers
- Power supply cable
- Fuses kit
- Thermostat connection cables
- Instruction manual
- Kit of clamp connection (only 3I version)
- Cordura® Soft Bag

Touch Display

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

32-bit The new microprocessor-based PID controller allows a resolution down to 0.001 °C



Inserts



The Fluids he can equipped with Anticorodal inserts with holes demand to be used as dry calibrators.

Perforated insert Codice: 2D2846

Supports



Fluids are equipped with adjustable holders support the probes under test or thermometers

Extension tube



The extension tube is suitable for increasing the depth of the liquind tank Total depth: 230 mm

Accesories on demand:

- Aluminium insert 2D2846
- Blind aluminium insert 242678
- Insert with customizable holes
- Extension Tube
- Aq2Sp2 software
- USB cable
- ACCREDIA certificate (only 3I version)
- water-cooling coil -**OFLUIDCOOLING**

Aluminium rigid case

Code: 2TRMBAG-FLUID **Dimensions:** 410x220x380 mm Weight: 1.45 kg Packaging dimensions: 600x370x500 mm

Cordura® Soft Bag

Calibrator weight with standard equipment

values measured at room temperature 20°C

The achievement of stabilization is confirmed by a symbol ${\tt V}$ and a ${\tt beep}$

temperature deviation between the display and the reference probe *** Maximum temperature difference at a stable temperature over 30 minute

Code: 2DC505-000 **Dimensions:** 450x280x380 mm Weight: 4.8 kg

Packaging dimensions: 600x370x500 mm

Silicon Oil available



Bottle 500 cc of silicon oil 47V20 (-20°C/+200°C) **BOTTLE47V20** Bottle 500 cc of silicon oil

47V50 (30°/+230°C) **BOTTLE47V50**

Bottle 500 cc of silicon oil47V100 (50°C/ +250°C)

BOTTLE47V100

How to order:

FLUID200T

- Standard version
- **-00-1** 115V 50/60 Hz **-00-1** 115V 50/60 Hz

FLUID200+T

Standard version

COMPARATIVE TABLE

FLUID200T

Temp. Amb. ÷+200℃

±0.2℃

FLUID200+T

Temp. Amb. ÷+250℃

±0.2℃

SCREEN TOUCH

℃ - °F - K

0.1°/0.01°/0.001°C

from T_{amb} to 200℃

approx 30 min.

from 200℃ to 50℃

approx75 min.

±0.03℃

±0.0 1℃ +140℃

±0.06℃ at 140℃

60 mm

170 mm

Anticorodal

On/Off 4.5 V DC

from 0.1°C /1°C

B type USB

Pt100 at 3/4 wires Pt1000 -

Thermocouples: J,K,N,R,S,E,T,B-Sensor

with 0-10 V or 4-20 mA output

on 5 points

230 or 115 VAC

500 VA

160x360x350 mm

8.3 kg

Specifications

Mean heating time (stabilization included)

Mean cooling time (stabilization included)

Stability full temperature range***

Radial uniformity measured from the

Temperature range*

Units of measure

Display riso lution

Axial uniformity

Hole diameter

Insert material

PC interface

External probes

Automatic calibration

Diameter sensor_ 6 mm

Operating voltage

Electric power

Calibrator size

Swich test, voltage

Adjustable ramp function

Hole depth

bottom up to 40 mm

Display

Accuracy**

FLUID200T/FLUID200+T

- Version with 3 configurable input
- -00-2 230V 50/60 Hz -00-2 230V 50/60 Hz -3I-1 115V 50/60 Hz
 - -3I-2 230V 50/60 Hz





CERTIFICATION:

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



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