

Fluid200

PORTABLE FLUID TEMPERATURE CALIBRATOR

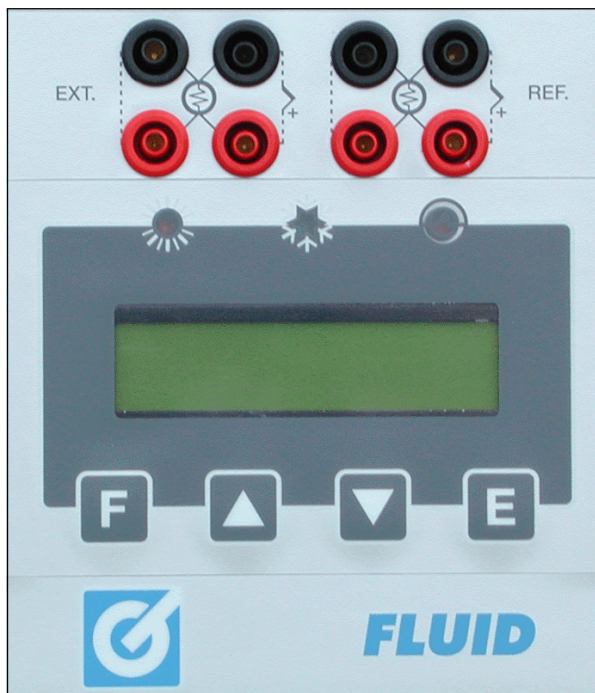


Operating range:
Room temp. / +200 °C

Applications:

- Check and calibration of temperature sensor in the laboratory as well as in the field in compliance of ISO 9000 regulations.
- Check of glass thermometers.
- Check of thermostats.





Fluid200

PORTABLE FLUID TEMPERATURE CALIBRATOR

FLUID200 is a portable thermostatic calibrator used for checking thermocouples and Pt100 in the laboratory as well as in the field. It consists of an aluminium vessel whose capacity is about 400 cc and it is constantly kept homogenous by a magnetic mixer whose speed is adjustable according to the viscosity of the fluid used.

The **FLUID200** oven doesn't use external refrigerating liquids; the internal tank is heated and cooled by Peltier elements.

The mixing process ensures a proper heat transmission and excellent stability and uniformity values; the large size of the input mouth makes it possible to test sensors of various lengths and diameters.

FLUID200 is equipped with a new PID microprocessor controller with a resolution up to 0,01 °C, setting of the standard of measurement in °C, °F and K, programming of ascent/descent ramps and storage of the thermostats' operative temperature.

In the **FLUID200-2I** version, the instrument is equipped with an acquisition card having two adjustable inputs (Pt100 3/4 wires, thermocouples: J, K, N, R, S) with bushes fitted with gold-plated contacts and automatic compensation of the cold junction.

The first input is provided for the reference sample probe, thus obtaining a complete calibration system which can be certified by S.I.T. centres, in compliance with ISO 9000 regulations.

The second 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 of the reference sample probe, at the same time.

Furthermore, **FLUID200** is equipped with the RS232 serial interface; it can operate in automatic mode connected to the PC by means of the AQ2sp software which enables to carry out probe calibrations, thermostats tests, and cyclical life tests; test results can be stored and printed, so they are easily traceable in compliance with ISO 9000 standards.

TECHNICAL DATA (FLUID200-00 - basic version)

Operating range:	Room temp. +200 °C
Stability:	±0,02 °C (@ 150 °C)
Uniformity (@ 150 °C)	
- Radial	±0,05 °C (@ 50 mm)
- Axial	±0,05 °C (for 60 mm from the bottom)
Mean heating time:	10 °C/min
Mean cooling time:	5 °C/min
Display resolution:	0,1 °C / 0,01 °C
Display accuracy:	±0,15 °C
Units of measurement:	°C - °F - K
Serial interface:	RS232
Well diameter:	54 mm
Usable well depth:	150 mm
Power supply:	115 or 230 V - 50/60 Hz
Electric power:	500 VA
Calibrator size:	160 x 340 x 330 mm
Calibrator weight:	8 kg

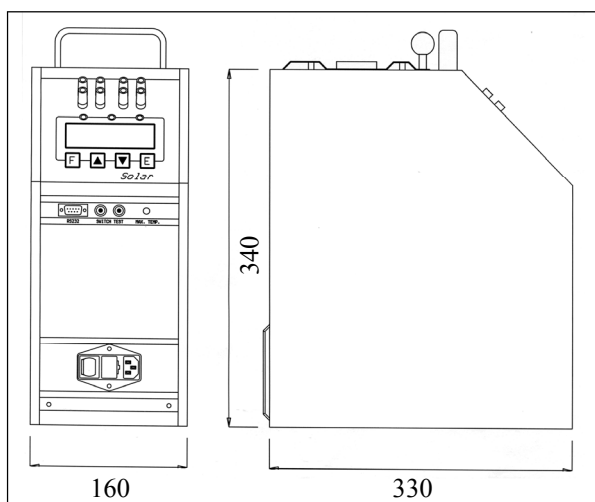
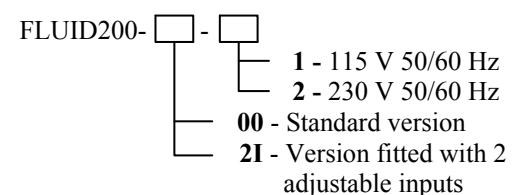
STANDARD EQUIPMENT: (code: FLUID200-00)

- FLUID200 calibrator.
- Bottle (500 cc) of silicon oil 200C5.
- Bottle (500 cc) of silicon oil 47V20.
- Closing top used for transport.
- Fluid emptying system.
- Support for glass thermometers.
- Power supply cable.
- Fuses kit.
- Thermostat connection cable.
- Test report.
- Instruction manual.
- Cordura® soft bag.
- Kit of clamp connections (only 2I version).
- RS232 serial interface.

ACCESSORIES ON DEMAND:

- AQ2sp software.
- Pt100 sample probe.
- RS232 serial cable.
- USB/RS232 converter.
- S.I.T. certificate (only 2I version) performer by a sample probe connected to FLUID200.

HOW TO ORDER:



FLUID200-2I Version with data acquisition card and two devices to measure:

Type of probe	Range	Accuracy
Pt100 IEC 3/4 wires	-100 / 700 °C	±0,3 °C
Thermocouple J	0 / 1000 °C	±1 °C
Thermocouples K N R S	0 / 1300 °C	±1 °C

CERTIFICATION:

All the instruments are supplied with final testing, stability and accuracy certification traceable to S.I.T. standards.

A QUESTION OF CALIBRATION



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