

PULSAR

PORTABLE TEMPERATURE CALIBRATOR

35Cu



Operating range:

Room temp. / +600 °C
(Room temp. / 1112 °F)

Applications:

Control calibration of temperature sensors in laboratory, in conformity with ISO 9000 standards.

Control of thermostats.

Automatic computer-controlled.



GIUSSANI



PULSAR 35Cu

PORTABLE TEMPERATURE CALIBRATOR

PULSAR-35Cu temperature calibrator is a compact instrument used to calibrate transducers, RTD and temperature-measuring sensors in the field and in the laboratory. The possibility to generate positive and negative temperature ramps makes it suitable for use in calibrating and testing thermostats.

TECHNICAL CHARACTERISTICS:

PULSAR-35Cu temperature calibrator consists of a metal block measuring 50 mm in diameter heated by a resistance which winds around the outer surface of the block.

A hole having diameter 35 x 190 mm is made in the block for the appropriate reduction inserts.

PULSAR-35Cu is equipped with a 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 **PULSAR-35Cu-2I** version the instrument is equipped with an acquisition card having two adjustable inputs able to read: Pt100 3/4 wires & thermocouples: E, J, K, N, R, S with automatic compensation of the cold junction.

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 temperatures of the furnaces, the temperature of the sensor to be checked and of the reference sample probe, at the same time.

Furthermore, **PULSAR-35Cu** 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 and cyclical life tests; test results can be stored and printed, so they are easily traceable in compliance with ISO 9000 standards.

TECHNICAL DATA (PULSAR-35Cu-00)

Operating range:	Room temp. ÷ +600 °C (Room temp. ÷ 1112 °F)
Stability:	±0,05 °C at 450 °C ±0,09 °C at 842 °F
Uniformity (at 450 °C)	
- Radial	±0,15 °C at 50 mm ±0,27 °F at 50 mm
- Axial	±0,35 °C (for 60 mm from the bottom) ±0,6 °F (for 60 mm from the bottom)
Maximum heating time:	20 °C/min (68 °F/min)
Maximum cooling time:	25 °C/min (77 °F/min)
Display resolution:	All temperatures: 0,1 °C / 0,01 °C
Display accuracy:	±0,3 °C (±0,5 °F)
Units of measurement:	°C - °F - K
Serial interface:	RS232
Well diameter:	35 mm (1.3 in.)
Insert hole depth:	185 mm (7.2 in.)
Power supply:	115 or 230 VAC - 50/60 Hz
Electric power:	800 W
Calibrator size:	160 x 340 x 330 mm (6 x 13.3 x 12.9 in.)
Calibrator weight:	10 kg (22 lb)
Shipping weight with carrying case:	18,2 kg (40 lb)
Shipping size:	320 x 550 x 490 mm (12.5 x 21.6 x 19.2 in.)

PULSAR-35Cu-2I

Version with data acquisition card and two input devices to measure:

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

STANDARD EQUIPMENT:

- Power supply cable.
- Fuses kit.
- Thermostats connection cables.
- Instruction manual.
- Test report.
- Tweezer for inserts removing.
- **2D3007**: 5 holes insert (diam. 3,5 - 5 - 6,5 - 8,5 - 12,5 x 185 mm) (diam. 0.13 - 0.19 - 0.33 - 0.49 x 7.2 in.)
- RS232 serial interface.
- Kit of clamp connections (only 2I version).

ACCESSORIES ON REQUEST:

- Insert with customizable holes.
- AQ2sp software.
- Accredia certificate (2I version only) executed with the reference probe plugged in Pulsar 35Cu.
- Pt 100 reference probe.
- USB/RS232 converter.
- RS232 serial cable.
- Aluminium case.
- Cordura® soft bag.

ORDERING CODES:

Standard version

PULSAR-35CU - **00** - **1** - 115 V 50/60 Hz

PULSAR-35CU - **00** - **2** - 230 V 50/60 Hz

Version with 2 adjustable inputs

PULSAR-35CU - **2I** - **1** - 115 V 50/60 Hz

PULSAR-35CU - **2I** - **2** - 230 V 50/60 Hz



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