

PULSAR-80Cu

PORTABLE TEMPERATURE CALIBRATOR T. amb. / +550°C



PULSAR-80Cu temperature calibrator is a compact instrument used to calibrate transducers and temperature-measuring sensors. The considerable size makes it suitable for test of thermostats with high-length bulb.

The **PULSAR-80Cu** temperature calibrator consists of a metal block measuring diameter 80 x 300 mm heated by a resistance which winds around the outer surface of the block. A hole measuring diameter 60 x 275 mm is made in the block for the appropriate reduction inserts.

The **PULSAR-80Cu** is equipped with a counter-current forced air cooling system, which keeps the temperature low in the upper part of the well; this system enables to check even very short probes, without heating the connecting head or the handgrip; it 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 the **PULSAR-80Cu-2I** version the instrument is equipped with an acquisition card having two adjustable inputs able to read: Pt100 3/4 wires & thermocouples: J, E, 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 SIT 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 the temperature of the reference sample probe, at the same time.

Furthermore, **PULSAR-80Cu** 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.

APPLICATIONS:

- Control of high-length thermostats
- Removable testing insert Ø 60x275 mm
- Insert with customizable holes

MAIN CHARACTERISTICS:

- Operating range T amb. / +550°C (1022°F)
- 2 different version
- High stability and precision
- Display resolution up to 0,01
- Multi-hole inserts available
- Automatic ramp function
- RS232 serial interface



ACCESSORIES

Standard Equipment:

- PULSAR-80Cu calibrator
- Insert for DN 4,6,9,12 probes
- Insert Extractor
- Power supply cable
- Fuses kit
- Connection cables thermostats
- Instructions manual
- Test report
- Kit of clamps connection (2I version only)
- RS232 serial interface

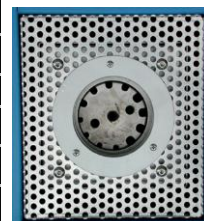
Accessories on demand:

- Insert with customizable holes
- AQ2sp software
- ACCREDIA certificate (2I version only) executed with the reference probe plugged in Pulsar-80Cu
- Pt 100 reference probe
- USB/RS232 converter
- RS232 serial cable
- Aluminium Trolley



Specifications	PULSAR 80Cu
Temperature range*	T _{amb} + +550°C
Display accuracy**	±0.3°C
Units of measure	°C/°F/K
Display resolution	0.1/0.01°C
Mean heating time	9°C/min
Mean cooling time	16°C/min
Stability full temperature range (°C)***	±0.05°C a 450°C
Axial uniformity (at 400°C)	±0.3°C for 120 mm from the bottom
Radial uniformity (at 400°C)	±0.1°C a 100 mm
Hole diameter	60 mm
Hole depth	275 mm
Insert material	Nickel-plated copper
Switch test, voltage	On/off 12 VDC
Adjustable ramp function	from 0,1°C/min
Pc interface	RS232
External probes	Pt100 with 3/4 wires, Pt1000-J, K, N, R, S, E, T, B thermocouples Probes with 4-20 mA or 0-10 V output
Automatic calibration	on 5 points
Operating voltage	230 VAC 50 or 60 Hz
Electric power	1700 VA
Calibrator size	170x450x330 mm
Calibrator weight with standard equipment	23 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	

PULSAR-80Cu-2I		
Version with acquisition card and dual input for measuring:		
TYPE OF PROBES	RANGE	PRECISION
Pt100 IEC 3/4 fili	-100 / 700 °C	±0,3°C
Thermocouple J, E	0 / 1000 °C	±1°C
Thermocouples K, N, R, S	0 / 1300 °C	±1°C



How to order:

- **STANDARD VERSION**
PULSAR-80Cu-00 – 230V 50/60 Hz
- **2I VERSION**
With two configurable input
PULSAR-80Cu-2I– 230V 50/60 Hz



Aluminium Trolley

Code: 2FLIPULSAR80CASE
Dimensions: 550x430x330 mm
Weight: 9,3 Kg

Practical and sturdy aluminum trolley useful and functional for safe and convenient transportation of the calibrator and accessories.



CERTIFICATION:

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



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