

Pocket temperature calibrators PJ 6521- PJ 6522



The thermometers-calibrators can simulate temperatures thanks to thermocouples (PJ6521) or resistive probes Pt100 (PJ 6522), and measure these same sensors to calibrate temperature measuring or temperature regulation instruments.

Their robust construction enables them to support shocks and harsh environments

- **Temperature simulation and measurement (resistive probes and thermocouples)**
- **Large choice of probes**

Applications.....

These calibrators are specially intended for the checking and calibration on site of probes, indicators, recorders and

regulators... They are useful for the maintenance services on site: maintenance service, calibration, new works, thermics, electrics, after-sale, in the majority of the

industrial sectors which imply the heating or the cooling of products, like for air-heating-conditioning activity.

Functions

PJ 6521 – PJ 6522.....

The thermometers-calibrators PJ 6521 and PJ 6522 have a dual function: simulation and measurement.

Resolution: 0.1°C between -100 and +300°C (except for the couples R and S : 0.5°C); 1°C beyond these values.

Accuracy for 1 year at 23 ±1°C :
Simulation : ±(0.1%R +0.2°C)
between -100 and +300°C,
±(0.1% R +2°C) beyond these values.

Measurement : ±(0.2%R+0.2°C)
between -100 to +300°C,
±(0.2% R+2°C) beyond these values.

With the thermocouples the precision is guaranteed for a reference junction at 0°C. The use of the internal reference junction may add an uncertainty of 0.3°C.

Temperature coefficient : ≤10% accuracy / °C

Sampling rate :
2 meas/s approximately

Model PJ 6522.....

Sensor	Range
Pt100	-200 to 850°C

Model PJ 6521.....

Thermocouple	Range
K	-250 to + 1372°C
T	-250 to +400°C
J	-210 to 1200°C
R	-50 to 1769 °C
S	-50 to 1769 °C
L	-200 to +900°C
N	-240 to 1300°C

MEASURE AND CALIBRATION

Additional functions

Hold function.....

Hold measurement value on display.

Statistical function.....

Display maximum, minimum and mean measurement values.

Memory function.....

50 measurement values can be memorised and read again on display.

Generation of signals.....

In emission it is possible to generate slopes, square and step signals.

Alarms.....

Possibility of programming two threshold values high and low. With crossing of the thresholds, the instrument emits a sound and lights a up or down arrow on the display.

Lighting.....

Time-lag lighting of display

Automatic stop

Stop in the event of non-use.

Analog output.....

Generation of a proportional voltage to the measured value (sensitivity 1 mV/°C) which can be recorded as curves.

General characteristics

Display.....

3000 measurement points, LCD, height 12.7 mm with or without lighting
Display also indicates in function of the models:

- the function : measurement or simulation
- the thermocouple programmed type and the presence or not of the internal reference junction.
- the unit (°C or °F)
- the state of alarms
- the measurement memorising
- the mode (hold, max, min, avg.)

Operating conditions

Use temperature : 0 to 50 °C.
Relative humidity : 20 to 80%.

Power supply.....

Standard 9v battery 6LR61 or LF22, autonomy superior to 50h. In option: accumulator battery with external charger. Autonomy ≥10h

Standards

For resistor probes Pt 100:
DIN-CEI 751 5NFC (42-330).
For thermocouples:
DIN-CEI 5841-1 5NFC (42-321)

Connection

By 2 points compensated miniature connectors for the models with thermocouples, by 3 points connectors for the models with Pt100.

Presentation.....

Anti-static case with sensor side clip.

Dimensions : 182 x 75 mm, thickness 43 mm

Weight : approximately 250g

Options - Accessories

- Kit batteries/charger 9v including 2 accumulators and a charger, recommended in the event of intense use.
- Carrying case
- Compensated connectors for thermocouple K, T, J or S connection.
- Non compensated connectors for Pt 100 probes.

The detailed characteristic of the sensors appear in the specific pages, in particular for technical reasons all the probes are not able to be clipped on the case.

Instructions to order

Thermometer-calibrator for thermocouples
Thermometer-calibrator for PT100

PJ 6521
PJ 6522

Accessories.....

Kit battery/charger

AC 6907

Carrying case

Ac 6908

Male connector T couple

ER 48145-130

Male connector S couple

ER 48145-150

Male connector K couple

ER 48145-160

Male connector J couple

ER 48145-140

Male connector Pt 100 Probe

ER 48351-005



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