

pocket temperature and process calibrators



AOIP's pocket indicator-calibrator line are precision instruments that perform, easily and economically, all common equipment calibration in the field.
The different models in the range mean one fits exactly each user's needs.

- Measures and simulates thermocouples and RTD
- Measures and generates milliamps/voltage
- Memory, alarms, backlit display ...
- Intrinsically safe versions

- Thermometer models indicate temperature with thermocouples (field selection of 7 types) or RTD. Some models have additional functions such as: max, min, average measurements, ...
- Thermometer/indicators measure and simulate temperature with thermocouples and RTD. They have the some additional functions, Two models are intrinsically safe.
- Process signal calibrators generate and

measure mA and mV.
One model is intrinsically safe.

These self-contained pocket-sized instruments are exceedingly robust: they will withstand common shocks and are unaffected by hostile environments. Special intrinsically safe versions are available for Ex-proof sites,

Key features
- Up to 7 types of thermocouple and RTD measured and simulated (KTIJSLN);

- Internal or external RJC (reference junction compensation);
- Choice of measurement units (°C or °F);
- 50 value memory;
- Maximum, minimum and mean value calculation;
- 2 programmable alarms;
- Analogue output drives strip or chart recorders;
- Backlit large character display.

various models

Thermometers.....

Version	Input sensor	Range	Additional functions
PN 6501	7 type Thermocouple	- 250 to + 1 760°C	Hold Max - Min - Average
PN 6511	RTD	- 200 to + 850°C	

Resolution: 0.1°C between - 100°C and + 300°C and 1°C outside these values.
1 year accuracy:
±(0.2% of reading + 0.2°C) between - 100°C and + 300°C, ±(0.2% + 2°C) outside these values.
For thermocouple devices accuracy is quoted for a reference junction at 0°C.
Use of reference junction may add a max. error of 0.3°C.

Thermometers/Calibrators

	Version	Input sensor	In/Out range	Additional functions
Thermometer Calibrator	PJ 6521	7 type Thermocouple	- 250 to + 1 760°C	Backlit display 2 programmable alarms 50 measurement memory Hold Max - Min - Average Analogue output
	PJ 6522	RTD	- 200 to + 850°C	
Intrinsically safe	PJ 6521EX	7 type Thermocouple	- 250 to + 1 760°C	
	PJ 6522EX	RTD	- 200 to + 850°C	

Resolution: 0.1°C between - 100°C and + 300°C and 1°C outside these values.
1 year accuracy:
Output: $\pm(0.1\%$ of reading + 0,2°C) between - 100°C and + 300°C, $\pm(0.1\%$ + 2°C) outside these values.
Input: $\pm(0.2\%$ of reading + 0.2°C) between - 100°C and 300°C, $\pm(0.2\%$ + 2°C) outside these values.

Process signal calibrators

	Version	Output	Input	Additional functions
Calibrator JN 6531		0 to 12Vdc 0 to 24 mAdc		Output in V, mA and % Output by steps of 25%
Calibrator/indicator JN 6532		0 to 12Vdc 0 to 24 mAdc	- 5 to 30 Vdc - 5 to 30 mAdc	Output in V, mA and % Output by steps of 25% Hold
Calibrator/indicator intrinsically safe JN 6532EX		0 to 12Vdc 0 to 24 mAdc	- 5 to 30 Vdc - 5 to 30 mAdc	50 measurement memory Backlit display

Resolution: 0.01 V and 0.01 mA.
1 year accuracy:
- Voltage output:
0.1% of reading + 0.01 V
- Current output:
0.1% of reading + 0.02 mA
- Input: 0.2% of reading + 1 d.

general specifications

3 000 count measurement resolution.
Reading rate: 2 measures/second.
12.7 mm high, 7 segment liquid crystal display with optional backlighting.

Display indicates unit status:

- In (measurement) or out (simulation) mode;
- Thermocouple type with or without reference junction compensation;
- Measurement units (°C or °F);
- Storage status;
- Alarm status.

Power supply

9 V alkaline battery (type 6LR61 or 6LF22) giving > 100 hour useful life.
Optional rechargeable battery kit with external charger plug giving > 20 hour useful life.

Connections

Standard miniature polarised thermocouple plugs (2 pins) or RTD plugs (3 pins) or terminals on process calibrators.

Packaging

ABS antistatic moulded case sculpted for

easy hand-held operation.

Isolated battery compartment with easily opened flap meets intrinsic safety requirements.

Watertight and splash proof to IP50 and 52 standards
Side groove takes detachable sensor probes.

Dimensions: 182 mm long, 75 mm wide, 43 mm thick.

Weight: 250 grams approx. according to battery and probe fitted.

additional functions

• Memory: up to 50 measurement values can be stored by pressing "MEM". Values are read out on the display with a sequence number.

• Reading "HOLD" function.

• Maximum, minimum and average measurements.

• Two setpoint alarms (up & low) can be programmed; alarm conditions generate an audible beep and up or down arrows on the display.

• Analogue output of the linearised value displayed as a volt signal (1 mV/°C) to drive chart recorders.

accessories

A wide range of sensors and probe attachments can be provided loose or in a custom foam-filled protective carrying case.

The above characteristics are subject to modification



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