UNIVERSAL PROCESS MEASUREMENT ...SOLVED!

Compatible with virtually all input types!

Thermistor, RTD, Thermocouple, DC, Potentiometer

- High Accuracy
- Requires No Computer Or Software
 - Simple On-Board Diagnostics
 - Universal Power
 - 6 Year Warranty
 - American Made



Tech Specs

- ► 18-bit Isolated Universal Analog Output
- ► High Precision 0.1% Accuracy
- Custom Range Tables
- Sink/Source Output
- ► 3-way Isolation
- Input capabilities:
 - Thermistor, RTD, DC, Potentiometer, Thermocouple



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Reverse Acting Output, Factory Set

R option: Reverse acting output Reverse acting models cannot be converted to direct acting **Output Calibration**

Zero and span set by using up/down buttons, ±10% range Output Loop Power Supply

20 VDC nom., regulated, 25 mADC, <10 mVRMs max. ripple May be selectively wired for sinking or sourcing mA output

Output Test

Front push button switch enables/disables test level output Adjustable 0-100% of span via up/down buttons

Output Resolution

18 bit

Output Ripple and Noise Less than ±0.2% of span

Accuracy

±0.1°C accuracy and 0.001°C resolution

Ambient Temperature Range and Stability -10°C to +60°C operating ambient

Better than ±0.02% of span per °C stability **Response Time**

300 milliseconds nominal

Isolation

Full 3-way isolation: input, output, power, 1200 VRMs min. 600 VACp or 600 VDC common mode protection 75 dB minimum common mode rejection Simultaneous 50 Hz and 60 Hz rejection

Absolute Process Instruments

How to Order

all commonly available sensors.

Default settings are type J T/C, 0-500°C, 4-20 mA output. See configuration worksheet on page 8 or specify the following.

Microprocessor-based linearization uses 41 to 55 segments or

The input type is set with switches and its range is configured

The low noise 18 bit analog output is isolated and can be set up

up to a 14th order polynomial depending on the sensor type.

using front buttons, a multimeter and an input simulator.

for common voltage and milliamp output types.

DC:	Range and mV, volts, or mA
Temperature:	Range in °F or °C (for temperature input)
T/C:	Thermocouple type, burnout setting
RTD:	Model/type, resistance, curve, number of wires
	If 4 wire: with or without current rotation
Thermistor:	Sensor model/type, resistance
Custom:	Complete sensor data over temperature range
Output:	Range and type (mV, V, mA)

Model	Description	Power
APD 8000	00 Universal input to DC output isolated transmitter	85-265 VAC, 50/60 Hz or 60-300 VDC
APD 8000 D		9-30 VDC or 10-32 VAC

and troubleshooting.

Output Test

An API exclusive feature includes an output test switch to provide a fixed output (independent of the input) when pressed. The output test greatly aids in saving time during initial startup and/or troubleshooting.

The test output level is adjustable from 0 to 100% of the output span.

Options and Accessory

Options-add to end of model number

NC5 5 point NIST traceable calibration certificate*	NC5	5 point NIST traceable calibration certificate*
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NC11 11 point NIST traceable calibration certificate*

*Certificate applies to your specified I/O settings. Field changes will void NIST certificate.

- U Conformal coating for moisture resistance
- R Reverse acting output

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Accessory-order as separate line item

API BP4 Spare removable 4 terminal plug, black