



# Absolute Process Instruments Inc.

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See [api-usa.com](http://api-usa.com) for latest datasheets, applications, and company information. Call 800-942-0315 for questions or technical support.

## Temperature Alarms, Transmitters, Converters

Versatile temperature transmitters ranged and linearized to your specifications

- Interface RTDs and Thermocouples to PLCs
- Rescale Temperature Ranges to 4-20 mA

Free Factory I/O Setup!



Info & Applications  
[api-usa.com/temp](http://api-usa.com/temp)

### Alarm Models

Field adjustable alarm setpoint(s)

Alarm options: HI, LO, HI/LO, LO/LO, HI/HI latching, reverse acting, band or inverse band alarm on APD 1430

### RTD Input Models

Specify RTD type, curve, and temperature range in °F or °C 10 Ω to 2000 Ω RTD

### Thermocouple Input Models

Specify T/C type and temperature range in °F or °C J, K, T, E, R, S, call or other types

### T/C Cold-Junction Compensation

Automatic for specified thermocouple

### T/C Burn-Out Protection

Upscale burnout standard, downscale burnout with option B

### Analog Output Zero and Span

Multi-turn potentiometers, ±15% of span adjustment range

### Functional Test Button

Alarm models: Toggles alarm output state

Analog output: Sets output to test level when pressed, 50% of span (adj. 0-100% some models)

### Response Time

70 milliseconds typical

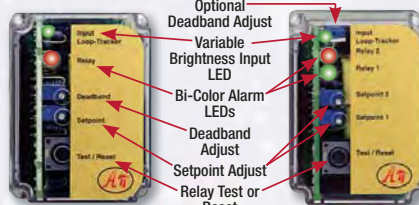
### Isolation

Alarms: Power to input

Transmitters: 3-way power/input, power/output, I/O



API 1420 G RTD Dual Alarm



API 1200 G & 1400 G Temperature Alarms

API 1220 G & 1420 G Temperature Alarms



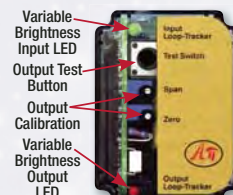
APD 1400 RTD Single Alarm



APD 1420 RTD Dual Alarm



APD 1430 RTD Band Alarm



API Transmitter



API 4001 G L RTD Transmitter



API 4130 G L T/C Transmitter



API 4001 G SA-B

| Model      | Type           | Specify Input   | Specify Alarm Output Type and Options                     |
|------------|----------------|---|---|
| API 1200 G | 11 pin plug in | T/C type, J, K, T, E, R, or S temperature range, °F or °C | 1 DPDT relay, 7 A, adjustable deadband                    |
| API 1220 G |                |   | 2 SPDT relays, 7 A, 1% deadband standard                  |
| API 1400 G | 11 pin plug in | RTD resistance, curve, temperature range, °F or °C        | 1 DPDT relay, 7 A, adjustable deadband                    |
| API 1420 G |                |   | 2 SPDT relays, 7 A, 1% deadband standard                  |
| APD 1400   | DIN            | RTD resistance, curve, temperature range, °F or °C        | 2 DPST relays, 8 A, 1 setpoint, adjustable deadband       |
| APD 1420   |                |   | 2 DPST relays, 8 A, 2 setpoints, adjustable deadband      |
| APD 1430   |                |   | 2 DPST relays, 8 A, 2 setpoint band alarm, adj. deadbands |

| Model           | Type           | Specify Input   | Specify Output  |
|-----------------|----------------|---|---|
| API 4001 G L    | 8 pin plug in  | RTD resistance, curve, temperature range, °F or °C        | 0-1 VDC to 0-10 VDC, ±1 VDC to ±10 VDC, 0-1 mA to 0-20 mA   |
| API 4001 G SA-B | 11 pin plug in | Two 100 Ω, 385 curve RTDs                                 | 20 V sourcing mA output, sinking optional on 4001 G L   |
| APD 4001        | DIN            | RTD resistance, curve, temperature range, °F or °C        | 0-1 VDC to 0-10 VDC, ±1 VDC to ±10 VDC, 0-1 mA to 0-20 mA, connect for sinking or 20 V sourcing mA  |
| API 4130 G L    | 8 pin plug in  | T/C type, J, K, T, E, R, or S temperature range, °F or °C | 0-1 VDC to 0-10 VDC, ±1 VDC to ±10 VDC, 0-1 mA to 0-20 mA, 12 V sourcing standard, sinking optional |

| Model                    | Type     | Specify Input                                      | Specify Outputs  |
|--------------------------|----------|--|--|
| APD 1393 RTD IsoSplitter | DIN 45mm | RTD resistance, curve, temperature range, °F or °C | Two outputs, specify for each channel 0-1 VDC to 0-10 VDC, ±1 VDC to ±10 VDC, 0-1 mA to 0-20 mA, connect for sinking or 20 V sourcing mA |



APD 4001 RTD Transmitter



APD 1393 RTD IsoSplitter