

DC Input Alarms, DC Input Transmitter + Alarm

Easy-to-install modules for alarming DC process signals for out-of-limit conditions

- Process Limit Alarm
- DC Power Limit Alarm
- Current Shunt Alarm

Free Factory I/O Setup!

Alarm Model Specifications

Field adjustable alarm setpoint(s)
12 turn potentiometer, adjustable from 0-100% of span
Alarm options: HI, LO, HI/LO, LO/LO, HI/Hi latching, reverse acting, band or inverse band alarm APD 1030

Shunt Option for Plug-In Modules

5A option: 5 Amp external 25 W shunt resistor with socket for current inputs >200 mAAC to 5A

API 1040 G Specifications

1 SPDT relay and non-isolated transmitter

Input Loop Power Supply

18 VDC nominal, unregulated, 25 mA

Functional Test/Reset Button

Toggle relay(s) to opposite state when pressed
Resets latching relay with HT option

Response Time

70 milliseconds typical



Info & Applications
api-usa.com/alarms



API 1040 G



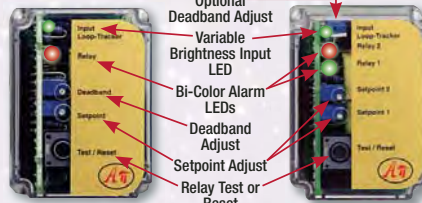
APD 1000 DC Input Single Alarm



APD 1020 DC Input Dual Alarm



APD 1030 DC Input Band Alarm



API 1000 G DC Input Alarms

API 1020 G DC Input Alarms



Socket Sold Separately

API 1080 G



Socket Sold Separately

API 1090 G



APD 1080



APD 1090

Model	Type	Specify Input	Specify Alarm Output Type
API 1000 G	11 pin plug in	0-100 mVDC to 0-300 VDC, 0-1 mA to 0-900 mA	1 DPDT relay, 7 A, adjustable deadband
API 1020 G			2 SPDT relays, 7 A, 1% deadband standard
API 1005 G	11 pin plug in	4-20 mA with loop power supply	1 DPDT relay, 7 A, adjustable deadband
API 1025 G			2 SPDT relays, 7 A, 1% deadband standard
APD 1000	DIN	0-100 mVDC to 0-300 VDC, 0-1 mA to 0-900 mA	2 DPST relays, 8 A, 1 setpoint, adjustable deadband
APD 1020			2 DPST relays, 8 A, 2 setpoints, adjustable deadband
APD 1030			2 DPST relays, 8 A, 2 setpoint band alarm, adj. deadbands
API 1040 G	11 pin plug in	0-100 mVDC to 0-200 VDC, ±100 mVDC to ±10 VDC, 0-1 mA to 0-50 mA	4-20 mA and 1 DPDT relay, 7 A, adj. deadband
Model	Type	Switch Selectable Input	Field Configurable Alarm Output
API 1080 G	11 pin plug in	0-50 mVDC to ±10 VDC, 0-1 mA to 0-20 mA	1 DPDT relay, 7 A, 1 setpoint, adjustable deadband
APD 1080	DIN	0-50 mVDC to ±10 VDC, 0-1 mA to 0-20 mA sink or source mA	2 DPST relays, 8 A, 1 setpoint, adjustable deadband
API 1090 G	11 pin plug in	0-50 mVDC to ±10 VDC, 0-1 mA to 0-20 mA	2 DPDT relays, 7 A, 2 setpoints, adjustable deadbands
APD 1090	DIN	0-50 mVDC to ±10 VDC, 0-1 mA to 0-20 mA sink or source mA	2 DPST relays, 8 A, 2 setpoints, adjustable deadbands

Loop Powered Isolators

Passive isolators to eliminate signal drifting due to ground loops

- Isolate 4-20 mA Current Loops
- Eliminate Ground Loops, Reduce Noise Effects

Input and Output

1 or 2 channels, 4 to 20 mA, powered by input loop

Input Voltage Burden

Approximately 9 VDC at 20 mA

Output Load Capability

Up to 1000 Ω with 20 V compliance at 20 mA at 30 VDC or approximately 750 Ω at 24 VDC depending on supply voltage

LoopTracker®

Variable brightness LED indicates output loop current

Output Zero and Span

Multi-turn potentiometers, ±10% of span range typical

Info & Applications
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API LPI-1



API LPI-2

Functional Test Switch

Momentary contact switch with spring-loaded return
Sets output to calibration reference level of 4 mA to allow testing of module circuits and output loop

Response Time

60 milliseconds typical

Isolation

Input to output, channel to channel



API DPI-2



API LPI-2

Model	Type	Input Range	Output Range
API LPI-1	8 pin plug in	4-20 mA	4-20 mA
API LPI-2	8 pin plug in	2 channel 4-20 mA	2 channel 4-20 mA
API DPI-2	DIN	2 channel 4-20 mA	2 channel 4-20 mA