

AC Input Alarms, Transmitters, Converters, Isolators

Convert AC voltage or current to process signals

- Motor, Heater, or Machinery input to PLC
- Monitor Electrical Loads or Voltage Drops



Free Factory I/O Setup!

Info & Applications
api-usa.com/ac

Alarm Model Specifications

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 1630

Factory Configured Models

Specify input, output range, power, and options

Field Rangeable Models

Specify input and output range if factory is to pre-set.
Specify power and options

Shunt Option for Plug-In Modules

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

Input Frequency

40 Hz to 1000 Hz

Analog Output Zero and Span

Multi-turn potentiometers, $\pm 15\%$ of span adjustment range

Functional Test Button

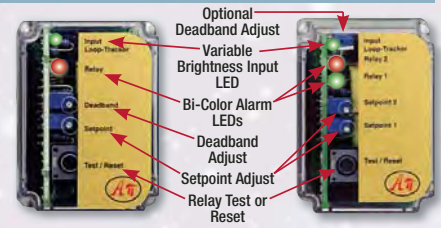
Alarm models: Toggles alarm output state
Analog output: Sets output to test level when pressed, 50% of span (adj. 0-100% some models)

Response Time

70 milliseconds typical
API 6010: 150 milliseconds typical
API 6380: 200 milliseconds to 90% typical

Isolation

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



API 1600 G
AC Input Alarms

API 1620 G
AC Input Alarms



APD 6010



API 6010 G 5A



API 6380 G

Socket-Sold Separately



APD 6380

Model	Type	Specify Input	Specify Alarm Output Type and Options
API 1600 G	11 pin plug in	0-50 mVAC to 0-300 VAC, 0-1 mAAC to 0-900 mAAC, 0-5 AAC with 5A shunt option	1 DPDT relay, 7 A, adjustable deadband
API 1620 G			2 SPDT relays, 7 A, 1% deadband standard
APD 1600	DIN	0-50 mVAC to 0-300 VAC, 0-1 mAAC to 0-1000 mAAC	2 DPST relays, 7 A, 1 setpoint, adjustable deadband
APD 1620			2 DPST relays, 8 A, 2 setpoints, adjustable deadband
APD 1630			2 DPST relays, 8 A, 2 setpoint band alarm, adj. deadbands
Model	Type	Specify Input	Specify Output
API 6010 G	8 pin plug in	0-50 mVAC to 0-300 VAC, 0-1 mAAC to 0-900 mAAC,	0-1 VDC to 0-10 VDC, ± 1 VDC to ± 10 VDC, 0-1 mA to 0-20 mA, 20 V sourcing mA, sinking optional
APD 6010 True RMS std.	DIN	0-50 mVAC to 0-300 VAC, 0-1 mAAC to 0-1000 mAAC	0-1 VDC to 0-10 VDC, ± 1 VDC to ± 10 VDC, 0-1 mA to 0-20 mA, connect for sink or 20 V sourcing mA
Model	Type	Switch Selectable Input	Switch Selectable Output
API 6380 G S: true RMS	8 pin plug in	0-50 mVAC to 0-250 VAC, 0-5 to 0-200 mAAC	0-1 to 0-10 VDC, ± 1 to ± 10 VDC, 0-2 mA to 0-25 mA, 20 V sourcing mA
API 6380 G HV S: true RMS	8 pin plug in	0-50 mVAC to 0-600 VAC, 0-5 to 0-200 mAAC	
APD 6380 True RMS std.	DIN	0-40 mVAC to 0-300 VAC, 0-4 mAAC to 0-200 mAAC	0-1 to 0-10 VDC, ± 1 to ± 10 VDC, 0-2 mA to 0-20 mA, connect for sink or 20 V sourcing mA

Potentiometer Input Alarms, Transmitters, Converters, Isolators

Convert potentiometer inputs to a process signal

- Position Monitoring and Alarms
- Use Any Potentiometer



Free Factory I/O Setup!

Info & Applications
api-usa.com/pot

Alarm Model Specifications

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 1830

Factory Configured Models

Specify input, output range, power, and options

Field Rangeable Models

Specify input and output range if factory is to pre-set.
Specify power and options

Input Excitation

1 VDC excitation provided to potentiometer

Analog Output Zero and Span

Multi-turn potentiometers, $\pm 15\%$ of span adjustment range

Functional Test Button

Alarm models: Toggles alarm output state
Analog output: Sets output to test level when pressed

Response Time

70 milliseconds typical

Isolation

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



API 4003 G I



APD 4003

Model	Type	Input Range	Specify Alarm Output Type and Options
APD 1800	DIN	Any full-range potentiometer 0-100 Ω to 0-1.0 M Ω	2 DPST relays, 8 A, 1 setpoint, adjustable deadband
APD 1820			2 DPST relays, 8 A, 2 setpoints, adjustable deadband
APD 1830			2 DPST relays, 8 A, 2 setpoint band alarm, adj. deadbands
Model	Type	Input Range	Specify Output Range
API 4003 G I	8 pin plug in	Any full-range potentiometer 0-100 Ω to 0-1.0 M Ω	0-1 VDC to 0-10 VDC, ± 1 VDC to ± 10 VDC, 0-1 mA to 0-20 mA, 20 V sourcing mA, sinking optional
APD 4003	DIN	Any full-range potentiometer 0-100 Ω to 0-1.0 M Ω	0-1 VDC to 0-10 VDC, ± 1 VDC to ± 10 VDC, 0-1 mA to 0-20 mA, connect for sink or 20 V sourcing mA
Model	Type	Input Range	Switch Selectable Output
API 4008 G	8 pin plug in	Any full-range potentiometer 0-100 Ω to 0-1.0 M Ω	16 switch selectable ranges 0-1 to 0-10 VDC, ± 1 to ± 10 VDC, 0-2 to 0-25 mA, 20 V sourcing mA
APD 4008	DIN	Any 0-100 Ω to 0-1.0 M Ω pot., 0-10 to 0-100% of range, selectable input offset: 0-90%	18 switch selectable ranges 0-1 to 0-10 VDC, ± 1 to ± 10 VDC, 0-2 mA to 0-20 mA, connect for sink or 20 V sourcing mA



API 4008 G



APD 4008