API 4058 and APD 4058 are non-isolated 150 milliseconds typical adjustable 0-100% of span

Functional Test Button

Multi-turn zero and span potentiometers for output

mV range = mV/V sensitivity * excitation voltage

Switch selectable mV input ranges

Amplify, alarm strain gauge sensor signals

APD 1520

DIN rail 11 pin

APD 4059 CR

IsoSplitter

APD 4059 CR: Specify calibration

1-10 VDC excitation, 115 mA max.

1-10 VDC excitation, 120 mA max.

1-10 VDC excitation, 30 mA max.

Ω to 10 kΩ, bridge,

Signal splitter, one input 5 to 1200 mVDC,

5 to 400 mVDC,

Ω to 10 kΩ, bridges,

APD 4059 CR: wire for 20 V source or sink mA output

Output Test

APD 4058: wire for 20 V source or sink mA output

APD 4051: wire for 20 V source or sink mA output

2 independent outputs, 0-2 mA to 0-20 mA

0-1 V to 0-10 V,

±1 V to ±10 V,

Socket Sold Separately

API 4059

Load Cell IsoSplitter

115 VAC and Output Configuration

NEW!

Functional Test Button

J, K, T, E, R, S, call or other types

Specify: T/C type

Thermocouple Input Transmitters

temperature range in °F or °C

Specify: RTD resistance

RTD Input Transmitters

temperature range, °F or °C

Specify resistance, curve,

APD 1400

2 DPST relays, 8 A, band alarms, adjustable deadbands

2 DPST relays, 8 A, 2 setpoints, adjustable deadband

APD 1420

APD 4001

API 4130 G L

Interface RTDs and Thermocouples to PLCs

Switch Type Ranges, Setpoint Aperture Relay

Model Mount Temperature Input Alarms

Model Mount Temperature Input DC Output

Model Mount Temperature Input DC Outputs

Socket

Self-powered 100 AAC, 150 AAC, 200 AAC

CTX-AC-1

AC transmitter

CS-AC-1

6-100 Hz AC switch

CS-DC-1

10-500 Hz DC switch

CS-DC-1

RTD: specify resistance, curve,

APD 1400

2 DPST relays, 8 A, 1 setpoint, adjustable deadband

0-1 mA to 0-20 mA, wire for 20 V source or sink mA output

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

mA inputs and outputs can be wired for sink or source

I/O Ranges

The Analog Advantage

US Flag © 2009 Joshua Nathanson
AC Input

Variable brightness LED indicates output loop current

5A

Configurations: HI, LO, HI/LO, LO/LO, HI/HI, LO/HI, Potentiometer adjustable alarm setpoint(s), 0-100% of span

Sets output to calibration reference level of 4 mA to allow

Approximately 9 VDC at 20 mA

API LPI-1

API DPI-2

DIN rail 2 channel 4-20 mA 2 channel 4-20 mA

API 1005 G

API 1020 G

2 DPST relays, 8 A, band alarms, adjustable deadbands

DIN rail 2 DPST relays, 8 A, 2 setpoints, adjustable deadbands

API 1090 G

0-1 mADC to 0-900 mADC sinking

0-100 mVDC to 0-300 VDC,

0-100 mVDC to 0-200 VDC,

0-1 mADC to 0-900 mADC,

0-1 mADC to 0-50 mDCA,

wire for sink or source

±5 VDC, ±10 VDC,

mA input

1 DPDT relay, 8 A, adjustable deadband

1 DPDT relay, 8 A, 1 setpoint, adjustable deadband

70 msec. typical, see datasheets for fast response options

HT

Toggle relay(s) to opposite state when pressed

Calibration

Output Load Capability

Factory can pre-set to your requirements

power and options (see datasheet)

Output = (A+B–C)/2

API 4405 G

Output = (A+B–C–D)/2

API 4404 G

Output = (A+B+C+D)/4 (average of 4) Specify input for each

API 4003 G I

8 pin

APD 1820

11 pin

APD 3280

Any full-range potentiometer, full, partial or offset input

100 mVRMS to 150 VRMS

Signal splitter, one input

0-1 V to 0-10 V, ±1 V to ±10 V,

20 V sourcing mA output

2 independent outputs,

20 V sourcing mA

20 V sourcing mA

Operational Controls

Any full-range potentiometer, full, partial or offset input

100 mVRMS to 150 VRMS

Signal splitter, one input

0-1 V to 0-10 V, ±1 V to ±10 V,

20 V sourcing mA output

2 independent outputs,

20 V sourcing mA

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2 independent outputs,
Current Switches and Transmitters

Transmitters: 3-way power/input, power/output, I/O
Multi-turn zero and span potentiometers for output
mV range  =  mV/V sensitivity  X  excitation voltage
pressure transducer
bridge
load cell

Input Ranges
Switch selectable mA or Volt output ranges
Switch selectable mV input ranges
Field Rangeable Transmitters
options (see datasheet)

Amplify, alarm strain gauge sensor signals

API 4051 G I
11 pin
APD 4058
DIN rail
11 pin
DIN rail

Din rail mount

API 4059 G I
11 pin
APD 4059 G
20 V sourcing mA output
APD 4059 CR: wire for 20 V source or sink mA output
APD 4058: wire for 20 V source or sink mA output

Strain Gauge, Load Cell, Bridge

Transmitter for Load Cells, Pressure Sensors

Model Mount Switch Select. Strain Gauge Input Switch Selectable DC Output
1-10 VDC excitation, 115 mA max.
1-10 VDC excitation, 120 mA max.
1-10 VDC excitation, 30 mA max.
4-10 VDC excitation, 30 mA max.
One 100 Ω, 5 to 2000 mVDC
5 to 1200 mVDC,
5 to 2000 mVDC
2 DPST relays, 8 A, 1 setpoint, adjustable deadband

Output
2 independent outputs,
0-2 mA to 0-20 mA
0-1 V to 0-10 V,
±1 V to ±10 V,

Temperature

Authorized Temperature Input
DC Outputs

socket

Response Time

70 milliseconds typical

Button or contact closure to set output to test level
Output Test/Override

CJC standard

Alarm options: HI, LO, HI/LO, LO/LO, HI/HI

Field adjustable alarm setpoint(s)

Versatile temperature alarms and transmitters

Economical sensors for current out-of range alarms

Custom Valve Positioner

info & Applications

Free Factory I/O Setup!

apd-usa.com

E145968
Transmitters: 3-way power/input, power/output, I/O adjustable 0-100% of span

Millivolt input: strain gauge

Specify: power

Switch selectable excitation voltage, power, output range

Factory Configured Transmitters

Band or inverse band alarm

Alarm options: HI, LO, HI/LO, LO/LO, HI/HI

Field adjustable alarm setpoint(s), 0-100% of span

API 1500

API 1530

API 1520

API 4058

DIN rail

API 4059

DIN rail

APD 4059

APD 5393

API 1200 G

API 1220 G

API 1420 G

APD 1400

API Exclusive Features

Convert Strain Gauge Signal to a DC Process Signal

Model Mount Switch Select. Strain Gauge Input Switch Selectable DC Output

APD series

Load Cell Alarm

Your Required Input

calibration resistor

0-1 V to 0-10 V, ±1 V to ±10 V,

0-1 V to 0-10 V,

0-2 mA to 0-20 mA

0-2 mA to 0-20 mA

0-1 V to 0-10 V,

0-1 V to 0-10 V,

±1 V to ±10 V,

±1 V to ±10 V,

APD 2001 APD 2011 APD 2031 APD 2051 APD 2061 APD 2071

API Single Alarm

Variable Input LED

Brightness

API Dual Alarm

Relay Test or Reset

Variable intensity LEDs monitor I/O status and diagnose connection problems on all API transmitters. The brightness of the LED indicates the input channel state: green = normal operation, red = alarm

APD series

CS-DC-2S-12

375 AAC, 500 AAC, 750 AAC Solid core

100 AAC, 150 AAC, 200 AAC

CTX-AC-0

AC transmitter

API-USA.com/strain

CS-DC-1S-12

6-100 Hz AC switch

1220 American Way

Phone: 800-942-0315

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The API logo, LoopTracker, IsoSplitter, DuoPak, Cecomp Signal Conditioners, Isolators Process Transmitters, Alarms Custom Electronics

API-Duo Pak Two Channel Transmitters/Isolators

Variable Signal Interface Expert!

Free Application Assistance

See api-usa.com/apps for Product Applications

Made in USA

Variable Input LED

Brightness

API Single Alarm

Relay Test or Reset

Variable intensity LEDs monitor I/O status and diagnose connection problems on all API transmitters. The brightness of the LED indicates the input channel state: green = normal operation, red = alarm

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Variable Input LED

Brightness