API Exclusive Features

■ LoopTracker® LEDs

Variable intensity LEDs monitor I/O status and diagnose connection problems on all API transmitters.

As the process signal increases, the brightness of the LED increases, and as the signal decreases the LED brightness decreases. An open circuit cause the LED to go out. This allows you to diagnose I/O problems quickly and efficiently minimizing system down time.

□ Transmitter Functional Test Button

The API exclusive Push-to-Test button sends a test signal, independent of the process input, to the output allowing you to manually test your system.

This signal can be used to check loop status, downstream display operation, alarm operation, etc.

On many models this signal is adjustable from 0-100% of span by holding the Test button down and adjusting the Test potentiometer on the unit. On some models the test signal is fixed at 50% of output span.

Most APD series models have terminals to allow to connect your own output test button for remote testing or a manual over ride.

■ Alarm Functional Test Button

Modules with alarm outputs use bicolor red/green LEDS to indicate an alarm condition.

The API exclusive Push-to-Test button will switch the relay(s) and LED(s) to the opposite state regardless of the input signal level. When released, the module will return to its normal operating state.

With the latching alarm mode or option, pressing the Test button allows the latched alarm to be reset, provided the alarm condition no longer exists for that setpoint.

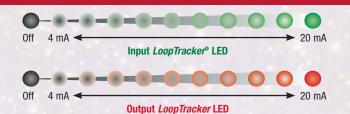
The test button allows the technician to test the relays, and the operation of the device the relays are controlling.

☐ Isolation

Model

Most API series modules offer 2000 V_{RMS} , 3-way isolation: power/input, power/output, input/output.

APD series modules offer 1200 V_{RMS}, 3-way isolation: power/input, power/output, input/output



□ The Analog Advantage

- ✓ Continuous response—no stair-stepping
- ✔ Fast, real-time response
- Fast setup and customized ranges with no loss in performance.

■ Hot Swappable Design

API plug-in modules can be quickly changed while under power. The socket with wire terminals mounts to your DIN rail and the module simply plugs in. This allows you to swap in a new module with minimal down time.

■ Module Power

Standard on plug-in modules: 115 VAC ±10%, 50/60 Hz

A230: for plug-in modules: 230 VAC ±10%, 50/60 Hz

 $\mbox{\bf P}\!:$ optional for plug-in modules, standard on APD series 60-265 VAC, 50/60 Hz or 85-300 VDC

D: 9-30 VDC or 10-32 VAC

□ Fast Delivery

Most products ship one to three days after you place your order. Call us for specific lead times for larger quantities or customized products.

■ Need a Special Signal Conditioner?

Most products can be customized for your specific requirements. In addition we can supply specialized signal conditioners from our partner companies. Products and applications include programmable temperature devices, LVDTs, speed sensing, pulse conversion, conductivity, salinity, pH and ORP.

Customized Solutions

We offer customized and private label solutions for OEMs. We can modify existing designs or offer unique products based on your specifications. Product capabilities range from circuit boards through complete product lines.

Our engineering capabilities include all circuit design, microprocessor programming, software, printed circuit board layout, prototype assembly, qualification testing, and documentation.

Production capabilities include computer controlled SMT and wave soldering equipment allowing us to design and produce our own circuit boards.

We maintain NIST traceable electrical test equipment and pressure calibration systems for production. We are a UL and Factory Mutual inspected shop.

We are often able to quote projects involving as few as 100 units per year. Please contact us to discuss your OEM project.



Custom Circuit Board Cus



Custom Valve Positioner

DuoPak® Two Channel Transmitters, Converters, Isolators

Two independent channels with full isolation in any I/O combination—save space and money!

Specify Channel 1 Input

- Simultaneous Monitoring of 2 Parameters
- Convert/Isolate Dual Output Transmitters
- Sink Source mA I/O for Each Channel

Input Ranges

Factory ranged, please specify for each input channel mA inputs can be wired for sink our source 15 VDC ±10%, regulated, 25 mADC

Output Ranges

Specify Channel 2 Input

Factory ranged, please specify for each output channel

Output Zero and Span

Multi-turn potentiometers for each output ±15% of span adjustment range

Functional Test Button

Sets output to test level when pressed Adjustable 0-100% of span

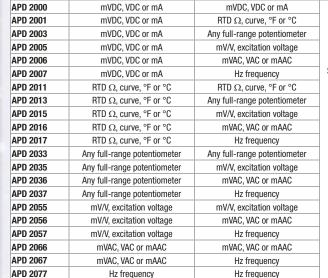
Response Time

70 milliseconds typical

Info & Applications api-usa.com/duopak

Isolation

5-way isolation: input 1, input 2, output 1, output 2, power,



2 independent outputs Specify type and range for each output channel

Specify Channel 1 and 2 Outputs

Channel 1

0-1 V to 0-10 V, ±1 V to ±10 V, 0-1 mA to 0-25 mA, connect for sinking or 20 V sourcing mA

Channel 2

0-1 V to 0-10 V, ±1 V to ±10 V, 0-1 mA to 0-25 mA, connect for sinking or 20 V sourcing mA



APD 2000 2 Channel DC to DC





APD 2077 2 Channel Frequency to DC