

API Plug-In Transmitters & Isolators

- Easy-to-install Plug-in Modules
- Wide Choice of Inputs: Volts AC/DC, Amps AC/DC, Process V/mA, Strain, Thermocouple, RTD, Potentiometer
- Variable Brightness I/O Status LEDs
- 2000V Isolation (1200V on LPT-1,-2)
- Lifetime Warranty


API4380
API6010G5A

 SIGNAL
CONDITIONERS

SPECIFICATIONS

LoopTracker®:	Variable brightness LEDs indicate input/output level & status
Test Button:	Sets output to test level for verification. or resets latching relay
Response Time:	70 msec typical (AC input: 200 msec)
Output Loop Supply:	20 VDC nominal, regulated, 25 mA max.
Isolation:	2000 Vrms power/input, power/output, input/output (1200V on LPI models)
Temperature:	-10°C to +60°C operating
Dimensions:	1.75" W x 2.75" H x 2.38" D (excluding socket)
DC Input:	up to 500 V or 5 A on factory set models
DC Input Z:	Volts: 1MΩ (200kΩ on API4300 & API4310; 50kΩ on API4440) Current: 10Ω on API4380 & API4385; 50Ω on API4440
Input Burden:	1 VDC @ 20 mA typical (9 VDC @ 20 mA on LPI1 & LPI2)
Input Loop Supply:	18 VDC nominal, unregulated, 25 mA (not available on API4380HV3 & LPT models)
AC Input:	40-1000 Hz,
AC Input Z:	Volts: 1MΩ (0-4V), 200kΩ (>4V & API 6010) Current: 10Ω (API6380)
Input Burden:	1 VDC @ 20 mA typical (API6010)
Strain Gauge Input:	200kΩ input Z; excitation 0-10 VDC (switch selectable), 120 mA max.
Thermocouple Input:	Automatic cold junction compensation & upscale burnout protection. Specify Type J, K, T, E, R or S & range
RTD Input:	Specify 0°C resistance (10-2000Ω), 2- or 3-wire, & alpha (385 typical).
Thermistor Input:	Typically 2kΩ-20kΩ. Specify PTC or NTC, temperature curve & range (°C or °F)

OPTIONS & ACCESSORIES

OPTIONS—add to end of model number

U Conformal coating for moisture resistance

ACCESSORIES—order as a separate line item

API 008	8-pin socket (use API011 for API4059)	For chassis or
API 008 FS	8-pin finger safe socket	DIN rail mounting
API CLP1	Module hold-down spring clip	
API TK36	DIN rail, 35 mm W x 39" L, aluminum	

ORDERING INFORMATION

Field Selectable Range:

Model	Input Range	Output Range	Power
API 4380 G	24 switch selectable, 0-50 mVDC to 0-10 VDC ±50 mVDC to ±10 VDC 0-1 mAADC to 0-20 mAADC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 4380 G A230			230 VAC
API 4380 G P			80-265 VAC, 48-300 VDC
API 4380 G D			9-30 VDC
API 4380 G HV3	23 switch selectable, 0-1 VDC to 0-200 VDC ±1 VDC to ±200 VDC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 4380 G HV3 A230			230 VAC
API 4380 G HV3 P			80-265 VAC, 48-300 VDC
API 4380 G HV3 D			9-30 VDC
API 4385 G	28 switch selectable, -50.0 mVDC to 20-40 VDC ±50 mVDC to ±10 VDC 0-200 μADC to 10-50 mAADC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 4385 G A230			230 VAC
API 4385 G P			80-265 VAC, 48-300 VDC
API 4385 G D			9-30 VDC

API 6380 G	20 switch selectable, Average responding 0-50 mVAC to 0-250 VAC 0-5 mAAC to 0-200 mAAC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 6380 G A230			230 VAC
API 6380 G P			80-265 VAC, 48-300 VDC
API 6380 G D			9-30 VDC
API 6380 G S	20 switch selectable, TRMS 0-50 mVAC to 0-250 VAC 0-5 mAAC to 0-200 mAAC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 6380 G A230 S			230 VAC
API 6380 G P S			80-265 VAC, 48-300 VDC
API 6380 G D S			9-30 VDC
API 6380 G HV	24 switch selectable, Average responding 0-50 mVAC to 0-600 VAC 0-5 mAAC to 0-200 mAAC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 6380 G A230 HV			230 VAC
API 6380 G P HV			80-265 VAC, 48-300 VDC
API 6380 G D HV			9-30 VDC
API 6380 G S HV	24 switch selectable, TRMS 0-50 mVAC to 0-600 VAC 0-5 mAAC to 0-200 mAAC	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-2 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA)	115 VAC
API 6380 G A230 S HV			230 VAC
API 6380 G P SHV			80-265 VAC, 48-300 VDC
API 6380 G D S HV			9-30 VDC

API 4059 G *	Strain gauge/bridge 14 switch selectable from 0-5 mV (0.5 mV/V) to 0-400 mV (40 mV/V)	16 switch selectable, 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC 0-2 mAADC to 0-20 mAADC	115 VAC
API 4059 G A230 *			230 VAC
API 4059 G P *			80-265 VAC, 48-300 VDC
API 4059 G D *			9-30 VDC

API 4008 G	Any full-range potentiometer from 0-100Ω to 0-1MΩ	18 switch selectable, 0-1 VDC to 0-10 VDC ±5 VDC to ±10 VDC 0-2 mAADC to 0-20 mAADC	115 VAC
API 4008 G A230			230 VAC
API 4008 G P			80-265 VAC, 48-300 VDC
API 4008 G D			9-30 VDC

Factory Set Range:

Model	Input Range (specify)	Output Range (specify)	Power
API 4300 G	0-100 mVDC to 0-500 VDC ±100 mVDC to ±10 VDC 0-1 mAADC to 0-900 mAADC	0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC (10mA max), 0-1 mAADC to 0-20 mAADC (20V compliance, 1000Ω @ 20 mA) suffix HC = 20-50 mAADC	115 VAC
API 4300 G A230			230 VAC
API 4300 G P			80-265 VAC, 48-300 VDC
API 4300 G D			9-30 VDC
API 4310 G	0-10 mVDC to 0-100 mVDC ±10 mVDC to ±100 mVDC 0-100 μADC to 0-1 mAADC	0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC 0-1 mAADC to 0-20 mAADC	115 VAC
API 4310 G A230			230 VAC
API 4310 G P			80-265 VAC, 48-300 VDC
API 4310 G D			9-30 VDC

Add suffix 5A for >0-900 mAADC to 0-5 ADC input (specify on order). Includes API 008 socket w/0.1Ω 25W shunt

API 6010 G	0-50 mVAC to 0-300 VAC or 0-1 mAAC to 0-900 mAAC	0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC 0-1 mAADC to 0-20 mAADC	115 VAC
API 6010 G A230			230 VAC
API 6010 G P			80-265 VAC, 48-300 VDC
API 6010 G D			9-30 VDC

Add suffix 5A for >0-900 mAAC to 0-5 AAC input (specify on order). Includes API 008 socket w/0.1Ω 25W shunt

API LPI-1 *	4-20 mA	4-20 mA	4-20 mA loop
API LPI-2 *	2 independent 4-20 mA	2 independent 4-20 mA	4-20 mA loop

API 4130 G L	Thermocouple °C or °F temperature (specify type J K T E R or S & °C or °F range)	0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC 0-1 mAADC to 0-20 mAADC	115 VAC
API 4130 G L A230			230 VAC
API 4130 G L P			80-265 VAC, 48-300 VDC
API 4130 G L D			9-30 VDC

API 4001 G L	RTD or Thermistor °C or °F temperature (specify type, curve & range)	0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC 0-1 mAADC to 0-20 mAADC	115 VAC
API 4001 G L A230			230 VAC
API 4001 G L P			80-265 VAC, 48-300 VDC
API 4001 G L D			9-30 VDC

API 4440 G	0-100 mVDC to 0-200 VDC 0-1 mAADC to 0-50 mAADC	Square root of input 0-1 VDC to 0-10 VDC ±1 VDC to ±10 VDC 0-1 mAADC to 0-20 mAADC	115 VAC
API 4440 G A230			230 VAC
API 4440 G P			80-265 VAC, 48-300 VDC
API 4440 G D			9-30 VDC

* Not UL Recognized