



RAEGuard PID

4-20 mA PID Transmitter

The RAEGuard PID is a permanently mounted (fixed) Photoionization Detector (PID) transmitter that operates from a 9 to 36 VDC power source and provides an analog (4-20 mA) signal output in three full-scale ranges of 20 ppm, 100 ppm, or 1,000 ppm isobutylene equivalent. Housed in an explosion-proof enclosure, the RAEGuard PID is equipped with a local digital display of the gas concentration and functional keys for performing calibration.

Key Features

- 4-20 mA analog output ranging from 0.1 to 100.0 ppm, or 1 to 1,000 ppm isobutylene equivalent
- 4-20 mA analog output ranging from 0.01 to 20.00 ppm isobutylene equivalent for ultra-sensitive version
- Explosion-proof enclosure for hazardous locations
- Long-life 10.6 eV Ultraviolet lamp and 3D Sensor

- Built-in pump with replaceable in-line filter and patented self-cleaning duty cycle operation
- Local displays with adjustment keys
- Magnetic key interface eliminates the need to open explosion-proof housing when making calibration and other minor adjustments
- Operation at 9 to 36V DC
- Two dry-contact outputs (<30V, 2A)

Applications

- Waste water treatment plants
- Marine and off-shore oil wells
- Refineries & petrochemical plants
- Power plants
- Pulp and paper mills
- Solvent recovery systems
- Painting and coating operations
- Air quality



RAEGuard PID

Specifications *

Detector Specifications

Size	5.0" L x 5.0" W x 4.5" H (127mm x 127mm x 115mm)
Weight	5.5 lbs (2.5 kg)
Detector	3D PID sensor std. 10.6 eV lamp
Hazardous Location Classifications	<ul style="list-style-type: none">• UL Class I, Div. 1, Groups B,C, D Temperature Code T6• cUL Class I, Div. 1, Groups B, C, D Temperature Code T6• ATEX, II 2 G EEx d IIB T6
Power	9-36 VDC, max 125mA at 24V
Output	4-20mA
Sampling	Internal diaphragm pump
Display	7-segment, 4-digit LCD with 4 color-coded fault LEDs
Response Time (t90)	30 seconds to 90% of reading using isobutylene, depending on duty cycle
User Interface	Magnetically accessed keys for calibration
Temperature	-20° to 55°C (-4 to 131°F)
Humidity	0 to 95% relative humidity (non-condensing)
Dry Contact	Max 30V, 2A
Mounting	2 holes 5.25" (133 mm) from center to center

*Specifications are subject to change

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