



# 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



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## Specifications \*

### Detector Specifications

<b>Size</b>	5.0" L x 5.0" W x 4.5" H (127mm x 127mm x 115mm)
<b>Weight</b>	5.5 lbs (2.5 kg)
<b>Detector</b>	3D PID sensor std. 10.6 eV lamp
<b>Hazardous Location Classifications</b>	• 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
<b>Power</b>	9-36 VDC, max 125mA at 24V
<b>Output</b>	4-20mA
<b>Sampling</b>	Internal diaphragm pump
<b>Display</b>	7-segment, 4-digit LCD with 4 color-coded fault LEDs
<b>Response Time (t90)</b>	30 seconds to 90% of reading using isobutylene, depending on duty cycle
<b>User Interface</b>	Magnetically accessed keys for calibration
<b>Temperature</b>	-20° to 55°C (-4 to 131°F)
<b>Humidity</b>	0 to 95% relative humidity (non-condensing)
<b>Dry Contact</b>	Max 30V, 2A
<b>Mounting</b>	2 holes 5.25" (133 mm ) from center to center

\*Specifications are subject to change

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