



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



ATEX



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



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.