WatchGas XDI-PID
Fixed VOC detector (volatile organic compounds monitor)

Product description

The XDI-PID is a fixed transmitter dedicated to volatile organic compounds detection and monitoring. It is a 4-20 mA ATEX transmitter with alarm relays and digital display (option) that can be connected to a DCS controller or used as a stand-alone autonomous detector.

10.6 eV photoionization PID lamp
The XDI-PID uses a 10.6 eV PID photoionization lamp in diffusion mode that has less contamination issues and needs less maintenance than pump systems. It is also possible to select 2 measuring ranges (0-50 ppm or 0-1000 ppm) for more precise monitoring.

Key features

- ATEX-IECEx certified (gas and dust)
- 2 measuring ranges for better precision
- Humidity-resistant without compensation
- Solid design ideal for use in difficult environments
- 3 configurable alarm relays (alerts and/or fault)
- Large LCD backlit panel providing clear measurements indications and ideal for on-site setup (option)

XDI-PID detector applications

- Industrial painting, surface treatment and solvents
- Chemical and petrochemical industries
- Pharmaceutical industry
- Paper and paper pulp industry
- Waste water treatment plants
- Industrial hygiene (control and surveillance)

Technical specifications

Sensor: 10.6 eV PID lamp available with 2 measuring ranges. 0-1000 ppm (standard) or 0.5 ppb – 50 ppm (option)

Certifications:
- ATEX-IECEx explosion proof
- II 2G Ex db IIC T6… T4 Gb
- II 2D Ex IIIC T85°C… T135°C Db

Power supply: 18 to 35 vDC 24V nominal

Outputs:
- Analog 4~20mA (3 wire)
- 3 alarm relays (configurable)
- Communication CANbus (4 wire)
- Inhibit function for maintenance
- RS232 terminal for data reading and setup

Data logging: 2880 readings memory capacity

Display (option):
- 2 alphanumeric backlit lines for status reading (gas concentrations, alarm status, etc.)
- LED status indicators: alarms, fault

Housing material: Copper free aluminum alloy or stainless steel

Finish:
- Chemicals-resistant Epoxy resin paint, RAL 9003 signal white
- Option Marine grade finish

Ingress protection:
- IP64 serial
- IP65 with water shield
- IP66 with hydrophobic screen

Cable entry: 2 x M20 ou ¾” NTP

Weight: 1.6 Kg

Service temperature: -15°C to +55°C

Unit selection

<table>
<thead>
<tr>
<th>Code</th>
<th>Designation</th>
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<tbody>
<tr>
<td>169-031</td>
<td>COV ATEX detector with 3 alarm relays (alarm 1,2 + fault). Without display</td>
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<tr>
<td>170-031</td>
<td>COV ATEX detector with digital display, 3 alarm relays and magnet configuration (non-intrusive system)</td>
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Accessories

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>003-010</td>
<td>Sampling cone collector</td>
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<tr>
<td>003-020</td>
<td>Bump test/calibration applicator spray deflector</td>
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<tr>
<td>008-311</td>
<td>Flow block</td>
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<tr>
<td>003-083</td>
<td>Weather shield for detector head</td>
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