

Fixed Gas Detector (Extractive Type)

PD-12



| | | |
|-------------------------|----------------------|--|
| CO Carbon Monoxide | Combustible Gas | Toxic gas or Semiconductor manufacturing gas |
| H ₂ Hydrogen | Carbon Dioxide | Inert Gas |
| HC Hydrocarbon | HCFC | Solvent |
| Extractive Type | Explosion-proof Type | |

| | |
|--------------|----------------------------------|
| Model | PD-12 |
| Gas Detected | Combustible gas, toxic gas, etc. |
| Display | 4-digit digital LED display |
| Power Supply | 24 VDC (18 to 30 VDC) |

Extractive type gas detector with display and alarm. Easy to replace its sensor unit.

Features

- Small and lightweight with concentration and alarm display
- Extractive type with hydrogen explosion proof (Ex d IIB + H₂ T4X)
- Detecting decreased flow rate function except PD-12C (option)
- Environmental friendly product
- Water and dust-proof construction (Degree of protection: IP65)

Specifications

| Model | PD-12A | PD-12B | PD-12C |
|----------------------------------|--|----------------------|----------------------|
| Detection Principle | Hot wire semiconductor | Catalytic combustion | Thermal conductivity |
| Gas Detected | As per specifications | | |
| Sampling Method | As per specifications | | |
| Suction Flow | Over 0.5L/min | | |
| Detection Range | As per specifications | | |
| Alarm Set Value | As per specifications | | |
| Alarm Accuracy | Combustible gas: ±25% of alarm set value under identical conditions Toxic gas: ±30% of alarm set value under identical conditions | | |
| Alarm Delay | Combustible gas: Within 30 seconds with 1.6 times of alarm set conditions Toxic gas: Within 60 seconds with 1.6 times of alarm set concentration | | |
| Alarms | Gas alarm: Red LED lamp flashes Trouble alarm: Yellow LED lamp flashes (sensor disconnection, sensor zero drop, power supply voltage error, etc.) | | |
| Display | Four-digit digital LED display | | |
| Output | Gas concentration analog signal · 4-20mA DC (common to the negative side of power supply) Gas alarm contact or failure contact*1 (one stage only) · 1a no-voltage contact output, Non-latching · Rated load: 0.5A at 250VAC or 0.5A at 30VDC (resistance load) | | |
| Operation | At 4 points of magnetic switches | | |
| Explosion-proof | II 2G Ex d IIB + H ₂ T4 Gb (ATEX)*2 Ex d IIB + H ₂ T4 X (TIIS) | | |
| Degree of Protection | IP65 | | |
| Applicable Cable | Cable outer diameter: 10.5mm to 14.5mm 6-conductor shielded cable: CVV-S 1.25mm ² or 2.0mm ² | | |
| Operating Temperature/Humidity*3 | -10 to +50 °C 10 to 90 %RH (0 to 50 °C) | | |
| Power Supply | 24 VDC (±20%) | | |
| Power Consumption | 7.5W max. | | |
| Dimensions | W133 x H260 x D132 mm (excluding protrusions) | | |
| Weight | Approx. 5.2kg | | |

*1 Gas alarm contact is a standard issue. Please specify if you wish a failure contact

*2 Some are not ATEX approved. For further information, please ask.

*3 No radical temperature or humidity changes and no condensing.