

The XDI-PID (photoionization detector) is used to measure a broad range of volatile organic compounds in the low ranges of 0 to 50ppm and 0 to 1000ppm. The unit is fully certified as a flameproof fixed monitor for use in hazardous areas. 4~20mA signaling with CANbus address enables the sensors to be networked via the WatchGas Combi control system or customer preferred monitoring systems.



Key Features

- Explosion proof
- Flexible output options
- Addressable or stand alone
- Hyper terminal communications / RS232 - live data and set up with 232 adapter
- One man calibration
- 2 alarm relays plus fault relay or 3 alarm relay
- Data logging

SPECIFICATION

Certification	Explosion proof ATEX-IECEX II 2G Ex db IIC T6...T4 Gb II 2D Ex tb IIIC T85°C...T135°C Db
Power Supply	18 to 35vDC 24v nominal
Outputs	<ul style="list-style-type: none"> • 3 wire analog 4~20mA • 4 wire CANbus • Optional Relays • Low alarm S.P.C.O • High alarm S.P.C.O • Fault alarm S.P.C.O / overrange • Rating 0.5A @30vDC • Inhibit option during servicing
Logging	Intervals - variable time Roll over/stop Storage - 2,880 readings
Housing Material	Copper free aluminium alloy, optional stainless steel
Finish	Chemical resistant epoxy paint, Ral 9003 signal white Optional - Marine grade finish
Ingress Protection	IP64 + water shield IP65 with hydrophobic screen IP66
Cable Entry	2 x M20 - 1.5 pitch - alternatives 25mm - 3/4 NPT
Weight	1.6kg
Temperature	-15°C to +55°C - safe area use For hazardous area use see temperature ranges on C1227 (Ex certification summary)
Humidity	5 to 95% RH non-condensing
Accessories	003-010 Collector Cone & Universal Fitting 003-020 Universal fitting (Test Gas Applicator / Spray Deflector) 003-035 Water Shield - stainless steel 008-311 Flow Block - nylatron 008-310 Flow Block - stainless steel 003-090 Duct Mount Kit 003-083 Detector Head Weather Shield 003-130 F1 Sensor Thermal Jacket
Replacement Parts	010-644 PID Bulb* 010-645 PID Electrode Stack 010-646 PID Spring 010-647 PID Extraction Tool
Sensor Type	Photo ionisation - PID
Target Gases	VOC's with ionisation potentials <10.6 eV

Range	Isobutylene 0-200ppm (0-1000ppm max) Isobutylene 5ppb to 50ppm option see gas listing G645
Overrange	Isobutylene 5000ppm
Response Time T₉₀	<15 seconds
Operating Life	Expected 5 years (excluding replaceable lamp and electronic stack - *24 months continuous operation)

