

The XDIwin-F1 Gas Sensor is capable of utilising a wide range of sensor cell types offering an unmatched number of gases that may be monitored. Standard 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
- Rugged and reliable
- 3 alarm points
- Addressable or stand alone
- CANbus, 4~20mA outputs
- Wide range of gas types / sensors
- Non intrusive adjustment magnets
- Back lit alpha numeric full status display
- Hyper terminal communications / RS232 - live data and set up with 232 adapter
- One man calibration
- 2 alarm relays plus fault relay or 3 alarm relays
- Data logging

## SPECIFICATIONS

|                               |  |
|-------------------------------|--|
| <b>Weight</b>                 | 1.6kg  |
| <b>Temperature</b>            | -15°C to +55°C - safe area use<br>For hazardous area use see temperature ranges on C1227 (Ex certification summary)  |
| <b>Humidity</b>               | 5 to 95% RH (Non-condensing)   |
| <b>Alarm Signal</b>           | Visual: 2 line alpha numeric back lit status display: gas type, concentrating units, alarm levels, alarm status, low/high/over range), sensor ID, inhibit<br>Alarm - Red LED<br>Fault - Amber LED (flashing when in inhibit)   |
| <b>Housing &amp; Material</b> | Copper free aluminium alloy, optional stainless steel<br>Finish: Chemical resistant epoxy paint<br>Optional - Marine grade finish<br>Sensor material - Stainless Steel 316516  |
| <b>Data Log</b>               | Intervals - variable time<br>Roll over/stop<br>Storage - 2,880 readings  |
| <b>Power Supply</b>           | 18 to 35vDC 24v nominal  |
| <b>Outputs</b>                | <ul style="list-style-type: none"> <li>• 3 wire 4~20mA / 4 wire CANbus</li> <li>• Relays <ul style="list-style-type: none"> <li>• Low alarm S.P.C.O</li> <li>• High alarm S.P.C.O</li> <li>• Fault alarm S.P.C.O</li> <li>• Rating 0.5A @30vDC</li> <li>• Inhibit option during servicing</li> </ul> </li> </ul>                       |
| <b>Cable Entry</b>            | 2 x M20 - 1.5 pitch - alternatives 25mm - 3/4 NPT  |
| <b>IP Rating</b>              | IP64 + water shield IP65 with hydrophobic screen IP66  |
| <b>Safety Certification</b>   | Explosion proof ATEX IECEx<br>II 2G Ex db IIC T6...T4 Gb<br>II 2D Ex tb IIIC T85°C...T135°C Db   |
| <b>Sensor Type</b>            | Infra Red, Electrochemical, Catalytic, Semiconductor, PID  |
| <b>Gas Type / Range</b>       | Flammable gases - LEL / %vol<br>Toxic gases - ppm/ppb<br>Oxygen %vol   |
| <b>Accessories</b>            | 003-010 Collector Cone & Universal Fitting<br>003-020 Universal fitting (Test Gas Applicator/Spray Deflector)<br>003-035 Water Shield - stainless steel<br>008-311 Flow Block - nylatron<br>008-310 Flow Block - stainless steel<br>003-090 Duct Mount Kit<br>003-083 Detector Head Weather Shield<br>003-130 F1 Sensor Thermal Jacket |

## AVAILABLE GASES

| Gases  | Measuring Range   |
|--|---|
| <b>Flammable Gases (LEL)</b>                           | 0~100% LEL Catalytic Hydrocarbons, NH <sub>3</sub> , H <sub>2</sub>       |
|  | 0~100% LEL Catalytic Hydrocarbons   |
|  | 0~100% LEL Catalytic Kerosene   |
| <b>O<sub>2</sub></b><br>Oxygen                         | 0~25% Vol Electrochemical   |
| <b>CO</b><br>Carbon Monoxide                           | 0~200ppm Electrochemical  |
| <b>H<sub>2</sub>S</b><br>Hydrogen Sulfide              | 0~50ppm Electrochemical   |
| <b>SO<sub>2</sub></b><br>Sulfur Dioxide                | 0~5ppm Electrochemical  |
| <b>NO<sub>2</sub></b><br>Nitrogen Dioxide              | 0~5ppm Electrochemical  |
| <b>PH<sub>3</sub></b><br>Phosphine                     | 0~10ppm Electrochemical   |
| <b>H<sub>2</sub></b><br>Hydrogen                       | 0~2000ppm Electrochemical   |
| <b>Cl<sub>2</sub></b><br>Chlorine                      | 0~10ppm Electrochemical   |
| <b>HCN</b><br>Hydrogen Cyanide                         | 0~10ppm Electrochemical   |
| <b>NO</b><br>Nitric Oxide                              | 0~10ppm Electrochemical   |
| <b>HCl</b><br>Hydrogen Chloride                        | 0~10ppm Electrochemical   |
| <b>O<sub>3</sub></b><br>Ozone                          | 0~1ppm Electrochemical  |
| <b>NH<sub>3</sub></b><br>Ammonia                       | 0~100ppm Electrochemical  |
|  | 0~1000ppm Electrochemical   |
|  | 0~5000ppm Electrochemical   |
| <b>ETO</b><br>Ethylene Oxide                           | 0~25ppm Electrochemical   |
| <b>ClO<sub>2</sub></b><br>Chlorine Dioxide             | 0~1ppm Electrochemical  |
| <b>HF</b><br>Hydrogen Fluoride                         | 0~10ppm Electrochemical   |
| <b>H<sub>2</sub>O<sub>2</sub></b><br>Hydrogen Peroxide | 0~100ppm Electrochemical  |
| <b>Refrigerant Gases</b>                               | 0~1000ppm Semiconductor   |
| <b>VOC PID 10.6 eV Range</b>                           | 0~1000ppm   |
| <b>IR Flammable</b>                                    | Hydrocarbon 0~100% LEL / 0~100 %vol.                                      |
| <b>IR CO<sub>2</sub></b>                               | CO <sub>2</sub> 0~5000 ppm / 0~2 %vol.(Standard) / 0~10 %vol. (Max Range) |
|  | CO <sub>2</sub> 0~100 %vol.   |
| <b>Formaldehyde</b>                                    | 0 - 10 ppm  |



# WatchGas XDIwin-F1

HAZARDOUS AREA GAS DETECTOR  
Remote Fixed Gas Detection offering local control and display  
C759C

