# WATCHGAS XDI-F1

## Hazardous area gas detector C744

## KEY FEATURES

- UKEX / ATEX / IECEx explosion proof
- CANbus / 4~20mA outputs
- Addressable or standalone
- Rugged and reliable
- Optional 2 alarm relays plus fault relay or 3 alarm relays

- One man calibration
- Data logging
- Wide range of gas types / sensors
- Hyperterminal communications / RS232 - live data and set up with 232 adapter
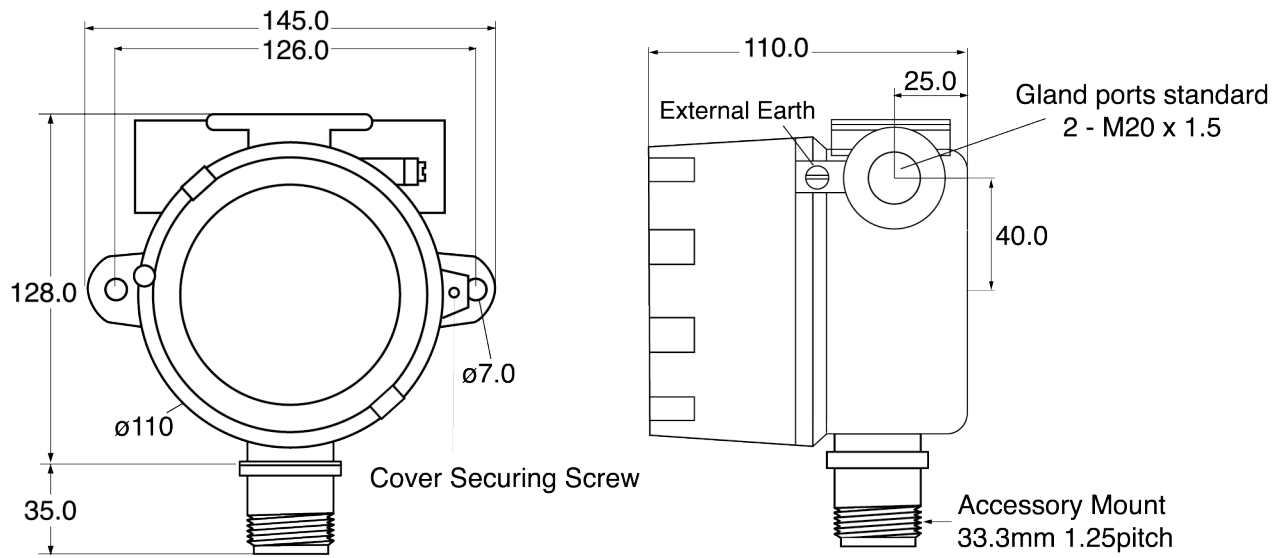
XDI-F1 + Sensor universal

The XDI-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.

# SPECIFICATIONS

| WEIGHT | 1.6kg |
|---|---|
| TEMPERATURE | -15˚C to +55˚C - safe area use<br>For hazardous area use see temperature ranges on C1227<br>(Ex certification summary) |
| HUMIDITY | 5 to 95% RH Non-condensing |
| XHOUSING & MATERIAL | Housing Material: Copper free aluminium alloy, optional stainless steel<br>Sensor Material: Stainless steel 316S16<br>Finish: Chemical resistant epoxy paint / RAL 9003 signal white<br>Optional: Marine grade finish |
| DATA LOG | Addressable sensors only<br>Intervals - variable time, rollover/stop<br>Storage - 2,880 readings |
| POWER SUPPLY | 18 to 35vDC 24v nominal |
| OUTPUTS | 3 wire 4~20mA / 4 wire CANbus<br>Optional relays:<br>• Low alarm S.P.C.O<br>• High alarm S.P.C.O<br>• Fault alarm S.P.C.O<br>• Inhibit option during servicing<br>• Rating 0.5A @30vDC |
| CABLE ENTRY | 2 x M20 - 1.5 pitch - alternatives 25mm - 3/4 NPT |
| IP RATING | IP64 + water shield IP65<br>with hydrophobic screen IP66 |
| EMC | EN 50270 |
| SAFETY CERTIFICATIONS | Explosion Proof UKEX, ATEX, IECEx<br>II 2GD<br>Ex db IIC T6...T4 Gb<br>Ex tb IIIC T85°C...T135°C Db |
| SENSOR TYPE | Infra Red, Electrochemical, Catalytic, Semiconductor, PID |
| GAS TYPE / RANGE | Flammable gases - LEL / %Vol Toxic gases - ppm/ppb<br>Oxygen %vol |
| ACCESSORIES | Collector Cone & Universal Fitting<br>Universal fitting (Test Gas Applicator/Spray Deflector)<br>Water Shield - stainless steel<br>Flow Block - nylatron<br>Flow Block - stainless steel<br>Duct Mount Kit<br>Detector Head Weather Shield<br>F1 Sensor Thermal Jacket |

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145.0
126.0
128.0
ø7.0
ø110
35.0
Cover Securing Screw

110.0
25.0
External Earth
Gland ports standard
2 - M20 x 1.5
40.0
Accessory Mount
33.3mm 1.25pitch

## FOR MORE INFORMATION
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