

iQguard

Toxic Gas Detectors

The iQguard series of gas detectors provide a high performance solution for a wide variety of industrial gas detection applications. By applying our wealth of experience and innovation in gas detector design, we have created a new generation of products serving environmental monitoring applications.

The iQguard series provide accurate, stable and repeatable gas detection measurements across a wide range of gas types.



Features

- Display or non-display models
- Wide range of gas types
- Stainless or moulded PVC enclosures
- Swappable detector heads
- Flexible configuration
- Built-in relays
- Modbus communications
- Optional ethernet communications
- Build in EMC RFI protection compliant to BS EN 50270
- SIL2 compliant
- Intrinsically Safe version available for Group II hazardous areas
- Intrinsically Safe version Certification Ex ia IIC T4 Ga
- IECEx certified
- ATEX certified

Easy to install

- Compact and lightweight
- Easy access connectors for installation of field wiring
- Protected to IP66, allowing greater freedom of location
- Wide input power supply range

Easy to use

- Large, backlit graphic display (display models)
- Easy to navigate menu system with context based help system on display models
- User interaction by noninvasive magnetic pen

Simple to maintain

- Simple sensor removal and replacement
- On-board analysis function monitors sensor performance in display model

Specifications

Measurement technique (all models)	Electrochemical
Measurement technology (all models)	Long life electrochemical cells with condition monitoring
Measurement Ranges (all models) Gas types	Configurable - please consult Ampcontrol for details Standard as per table plus others on application
Measurement accuracy Drift (time) Drift (temp)	+ 1.4% full scale at 25°C + 5% full scale/year
Process Outputs Non display current loop 4 - 20 mA Display current loop 4 - 20 mA Display version only Digital RS485 Modbus® communication	4 - 20 mA max. loop load 680 Ohms max. at 24 V 4 - 20 mA max. loop load 960 Ohms max. at 24 V 2 wire serial R5485 communications
Relay Outputs Dual single pole change over relays Rated carry current Rated switching voltage	Energised under normal conditions (fail safe) 2A @240V ac 240V ac
Connections Non display mode Display mode	2-wire for basic unit without graphical display 3 Wire for graphical unit with relays
Enclosure dimensions	136 x 136 x 73mm (plastic enclosure) 136 x 136 x 78mm (stainless steel enclosure)
Certifications Two wire Intrinsically Safe version in stainless steel enclosure only	IECEX BAS 12.0064X Baseefa 12 ATEX0092X BS EN 50270:2006 compliant (EMC)

Gas type ranges

Gas type	Range (ppm)	Operating temperature (°C)
Ammonia	50	-20 to +40
Ammonia	100	-20 to +40
Carbon Monoxide	50	-20 to +50
Carbon Monoxide	150	-20 to +50
Carbon Monoxide	300	-20 to +50
Chlorine	5	-20 to +50
Hydrogen Sulphide	20	-20 to +50
Nitric Oxide	100	-20 to +50
Nitrogen Dioxide	20	-20 to +50
Oxygen	25% V/V	-20 to +50
Sulphur Dioxide	20	-20 to +50

Housing options



Stainless Steel enclosure



PVC (Plastic) enclosure

