

# iQguard

## Oxygen Depletion 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 model	2-wire for basic unit without graphical display
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)
Oxygen	25% V/V	-20 to +50