# 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
- + 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

**Technical Data Sheet** 

## iQguard Toxic Gas Detectors

### **Specifications**

Measurement technique (all models)	Electrochemical	
Measurement technology (all models)	Long life electrochemical cells with condition monitoring	
Measurement Ranges (all models)	Configurable - please consult Ampcontrol for details	
Gas types	Standard as per table plus others on application	
Measurement accuracy		
Drift (time)	+ 1.4% full scale at 25°C	
Drift (temp)	+ 5% full scale/year	
Process Outputs		
Non display current loop 4 - 20 mA	4 - 20 mA max. loop load 680 Ohms max. at 24 V	
Display current loop 4 - 20 mA	4 - 20 mA max. loop load 960 Ohms max. at 24 V	
Display version only		
Digital RS485 Modbus® communication	2 wire serial R5485 communications	
Relay Outputs		
Dual single pole change over relays	Energised under normal conditions (fail safe)	
Rated carry current	2A @240V ac	
Rated switching voltage	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 enslosure)	
Certifications	IECEx BAS 12.0064X	
Two wire Intrinsically Safe version in stainless steel enclosure	Baseefa 12 ATEX0092X	
only	BS EN 50270:2006 compliant (EMC)	

#### Visual 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



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