

FGD14 Safe Area Gas Detector

For Detection of Oxygen and Toxic Gases



- Mains version – 85 to 265v ac, 47 - 440 Hz
- DC supply version – 9 to 36 volts dc
- Remote visual and audible alarm unit
- Contains 2 control relays
- Plug-in replaceable gas sensors
- Optional weatherguard

Description

The FGD14 series is a safe area fixed gas detector for gases such as O₂, CO, CO₂, SO₂, H₂S, and Cl₂, featuring a remote indicator unit and optional weather guard for added protection in harsh environments. The CO₂ model uses advanced miniature infrared sensor technology, and built-in control relays allow stand-alone operation across various applications.



Specifications

Material	Bayblend (ABS and Polycarbonate blending)
Cable entries	1 x M20 or ½" NPT 2 x M12 (one for connection to remote unit)
Weights	FGD14 (excluding weatherguard) – 900grams Weatherguard – 225 grams
Gas types	Oxygen or toxic
Supply voltage	Mains Version – 85 to 265 volts ac, 47 to 440Hz DC Version – 9 to 36 volts dc
Alarm set points	2 user adjustable set points
Alarm relay outputs	Voltage free, single pole change-over contacts. User selectable for either normally energised or normally de-energised operation
Alarm contact rating	1A, 30 volts dc, non-inductive load
Visual alarm indication	Flashing red LED on front panel and on remote indicator unit
Audible alarm indication	Intermittent alarm tone on front panel and on remote indicator unit
Sensor types	NDIR Infrared or Electrochemical
Measurement range	Dependant upon sensor type
Response time	Sensor response times vary according to the sensor type
IP rating	Enclosure IP66, Sensor IP65
Operating temperature	- 10 to +40 °C

Recommended Storage temperature	+10 to +20 °C
Humidity range	Oxygen – 0 to 95% RH non-condensing Toxic – 15 to 90% RH non-condensing typically Infrared – 0 to 95% RH non-condensing
Operating pressure	Atmospheric + or - 10%
Dimensions	122mm x 142mm x 75mm

Available gas types & sensor ranges		
Gas Type	Sensor Tech	Ranges Available
Ammonia	Electrochemical	0-100ppm 0-1000ppm
Carbon Dioxide	Infrared	0-2% 0-5% 0-100%
Carbon Monoxide	Electrochemical	0-50ppm
Chlorine	Electrochemical	0-20ppm
Hydrogen	Electrochemical	0-1000ppm
Hydrogen Sulphide	Electrochemical	0-50ppm
Nitrogen Dioxide	Electrochemical	0-20ppm
Oxygen	Electrochemical	0-21% 0-25%
Sulphur Dioxide	Electrochemical	0-20ppm

Application	Gas Hazard
Confined spaces	Oxygen deficiency
Swimming pools	Chlorine
Boiler rooms, car parks	Carbon monoxide
Breweries and cellars	Carbon dioxide
Food processing & drinks	Carbon dioxide
Building health management	Carbon dioxide
Greenhouses	Carbon monoxide, carbon dioxide, oxygen
Animal processing	Ammonia

Warning

These gas detectors must only be used in applications where there is no risk of potentially explosive gases being present or of them being created through industrial processes or other activities within the area concerned.