



Status Scientific Controls Gas Detection Technology





FGD14 Safe Area Gas Detector For Detection of Oxygen, Toxic and Flammable (Hydrocarbon) Gases

Features

- Mains version 85 to 265v ac, 47 440 Hz
- DC supply version 8 to 24 volts dc
- Remote visual and audible alarm unit
- Contains 2 control relays
- Plug-in replaceable gas sensors
- Optional weatherguard

The FGD14 series detector is a safe area fixed gas detector for the detection of gases such as oxygen (deficiency), carbon monoxide, carbon dioxide, sulphur dioxide, hydrogen sulphide, chlorine etc. and includes a remote indicator unit.

The carbon dioxide version uses the latest type of miniature **infrared** gas sensor technology.

It contains 2 control relays enabling it to be used as a stand-alone detector and controller in a range of applications

An optional weather guard is available for installations exposed to the atmosphere or contaminants and reduces the possibility of water or other contaminants entering into the gas sensor thereby improving the overall reliability of the gas detector in harsh environments



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	0-500ppm
Chlorine	Electrochemical	0-20ppm
Hydrogen	Electrochemical	0-100% LEL 0-1000ppm
Hydrogen Sulphide	Electrochemical	0-50ppm
Nitric oxide	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

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Instrument Expert Original factory packaging www.dorgean.com

FGD14 Safe Area Gas Detector

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Specification

Materials	Bayblend (ABS and Polycarbonate blending)	
Cable entries	1 x M20 or ½" NPT or ¾" NPT (for mains input) 1 x M12 (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 - 8 to 24 volts dc	
Alarm set points	2 user adjustable set points – adjustable ranges dependant on gas type	
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, 30Vd.c. 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	
Storage temperature	- 20 to +50 ° C	
Humidity range	0 to 95% RH non-condensing	
Operating pressure	Atmospheric + or - 10%	
Dimensions	122mm x 142mm x 75mm	

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.



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