PRODUCT SPECIFICATION

SAFETYWARE SecureSense Explosion-Proof Transmitter

GDF70

Features:
- Fixed gas detector that adopts high-quality catalytic gas sensor and for the detection of explosive gases, toxic gases or oxygen.
- Long lifespan as disturbing-proof against temperature and humidity
- Easy to operate.
- Intrinsically safe equipment which can continuously detect combustible gases and toxic gases in underground pipes or mines.
- Advanced sensors ensure accurate detection of a wide range of gases.
- Clear and intuitive LCD display for easy reading of gas concentration levels.
- Audible, vibrative and visual alarms to provide timely and effective warnings.
- Features adjustable alarm settings for alarm levels customization and span calibration values to suit your specific needs.
- Comes with a real-time clock and self-diagnostic and self-correction functions for added reliability.
- Certifications: Complies with industry standards and certifications for safety and reliability.
- Use in conjunction with SAFETYWARE GDF01 Gas Detection Control Panel to monitor the gas concentrations located at different sites continuously and conveniently.

APPLICATIONS

- Oil and gas industries
- Power plants
- Petrochemical plant
- Steelworks
- Refinery
- Marine
- Mine
- Sewage treatment plant
- Confined spaces
- Labs

Date created: 03/10/2023
Revision: 01
Date revised: 11/09/2024

PRODUCT SPECIFICATION

TECHNICAL DATA

SENSOR TYPE	Catalytic, electrochemical or NDIR gas sensor
SAMPLING METHOD	Natural Diffusion
WORKING METHOD	Continuous monitoring
RESPONSE TIME	≤ 30 seconds (LEL) ≤ 60 seconds (toxic gases)
WORKING TEMP	LEL: - 40 ˚C to 70 ˚C Toxic gases: - 20 ˚C to 50 ˚C
WORKING HUMIDITY	< 95% RH (no condensation)
PRESSURE LIMIT	86 to 106 kPa
INDICATION METHOD	4-digit LED light
CONDITION DISPLAY	3 LED lights indicate fault alarm (yellow), L-alarm level (red), H-alarm level (red)
SIGNAL OUTPUT	4 to 20 mA or RS485, 2 relay output
DIMENSION & WEIGHT	210 × 200 × 105mm, ~2100 g
WARRANTY PERIOD	1 year against manufacturing defects
EX GRADE	Ex dIICT6
INGRESS PROTECTION	IP65

ITEM CODE & SENSOR SPECIFICATION

ITEM CODE	TARGET GAS	MEASURING RANGE	ITEM CODE	TARGET GAS	MEASURING RANGE
GDF70-CH4	CH_4	0 – 100% LEL	GDF70-H2S	H_2S	0 – 100 ppm
GDF70-LPG	LPG	0 – 100% LEL	GDF70-NH3-1	NH_3	0 – 100 ppm
GDF70-H2-1	H_2	0 – 100% LEL	GDF70-NH3-2	NH_3	0 – 1000 ppm
GDF70-H2-2	H_2	0 – 1000 ppm	GDF70-SO2	SO_2	0 – 20 ppm
GDF70-LEL	LEL	0 – 100% LEL	GDF70-NO2	NO_2	0 – 20 ppm
GDF70-CH4-IR	CH_4	0 – 100% LEL	GDF70-CO2-1	CO_2	0 – 6000 ppm
GDF70-O2-1	O_2	0 – 25% Vol	GDF70-CO2-2	CO_2	0 – 5% Vol
GDF70-O2-2	O_2	0 – 30% Vol	GDF70-VOC	O_2	0 – 1000 ppm
GDF70-CO-1	CO	0 – 500 ppm	GDF70-C2H4O	C_2H_4O	0 – 100 ppm
GDF70-CO-2	CO	0 – 1000 ppm			