

Flameproof CPFG-3000



ATEX



The CPFG-3000 is a PLC based Combined Pressurisation Fire & Gas control panel used in conjunction with other JCE supplied products such as gas/smoke detectors & pressure switches. A complete pressurisation control system can be constructed to monitor the conditions within a pressurised module used in areas potentially hazardous by the presence of flammable liquids, gases, or vapours.

The CPFG-3000 is capable of monitoring signals from a single fire channel and three gas channels simultaneously.

The unit is suitable for use with either Pellistor type or Infrared gas detectors, as standard.

Its simple operation by only two external switches, and easy to read 3 line backlit HMI display module, make it very user friendly. The various configuration settings and process variable set points are set through the HMI in an easy to follow step by step process in association with the user manual.

The units flexibility in mains voltage means that any voltage from 400 to 500Vac, can be applied without the need for selection as this function is automatic. It provides the required volt free signals, these are changeover type as standard to enhance flexibility.

The I.S. protection of relevant field devices is by Galvanic Isolation which eliminates the requirements for I.S. high integrity earth connection.

Materials and Finish

- Body & Cover - Copper free aluminium alloy LM25 EN1706 with less than 0.2% copper content.
- Cover Bolts - Stainless steel 18/8.
- Finish - Chromate primed and polyester powder coated. Textured black as standard. Other finishes available on request.

Earthing

All enclosures are supplied with a 6mm stainless steel 18/8 internal and external earth stud as standard. Larger internal earths can be fitted on request.

Entries and Thread Standards

Standard thread forms are ISO Metric to ISO 965, NPT or GAS can be supplied on request.

Protection Grade

Enclosure lid incorporates a gasket providing Ingress Protection to IP66. Application of a non hardening grease to flamepaths and entries is recommended.

Certification

TRAC12ATEX020X
IECEx TRC 12.0008X

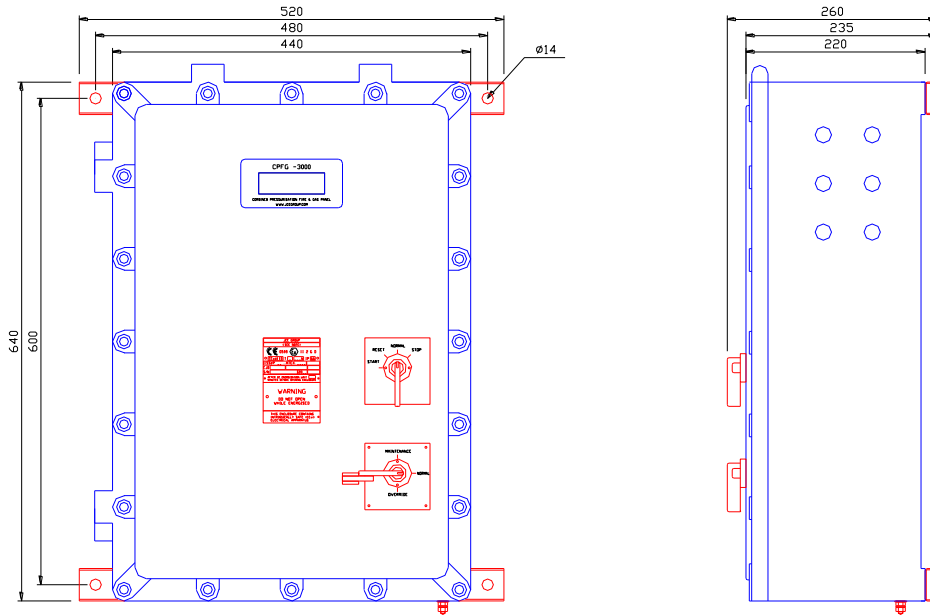
Codes

Ex d [ia IIC Ga] IIB + Hz T6 Gb
Ex tb [ia] IIIC T85°C Db

Categories

II 2 (1) G
II 2 (1) D

Dimensions



Specifications

Ex Protection	Ex d [ia IIC Ga] IIB + H ₂ T6 Gb Ex tb [ia] IIIC T85°C Db	
Supply voltage	400V 3ph 50/60Hz 440V 3ph 50/60Hz 460V 3ph 50/60Hz 480V 3ph 50/60Hz	
Pressurisation fan supply	Minimum 1.4A Maximum 2.5A	
Main contactor rating	AC-1	100A
	AC-3	65A
	3ph Transformer@440V 45kVA	
Fire channels	1 x fire channels suitable for up to 12 x Ex i ionisation smoke detectors & 1 x manual call point	
Flammable gas channels	3 flammable gas channels, voting	
EMC	Emissions below EN55022 level B Immunity to fast transients IEC 801-4 2kV	

Typical features

- Light weight aluminium alloy Exd flameproof enclosure.
- Three line backlit HMI controller/display.
- DOL motor starter for pressurisation fan.
- Lockable purge override switch.
- Compatible with 4-20mA gas detector transmitters or infra red detector types.
- Interface for intrinsically safe ionisation smoke detectors, heat detectors, flame detectors and manual call points.
- Continuous pressurisation and airflow monitoring via 2 channel intrinsically safe galvanic isolation interface.
- Various C/O type alarm outputs for interfacing with external system.
- Compliant with DNV 2.7.2 2013.

Ordering information

CPFG-3000
Customised variations available on request.



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