



Flameproof CPFG-3000 Series



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 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 -	Aluminium alloy ENAC-42000 (LM25) to BS EN 1706:1998 with less than 0.2% copper content.
Cover Bolts -	Stainless steel (304)
Mounting Plate -	Mild steel zinc plated (passivated)
Finish -	Polyester powder coated
Earthing -	All enclosures are supplied with a 6mm stainless steel (304) internal and external earth stud as standard. Larger internal earths can be fitted on request.
Gasket -	Silicone AD16

Entries and Thread Standards

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

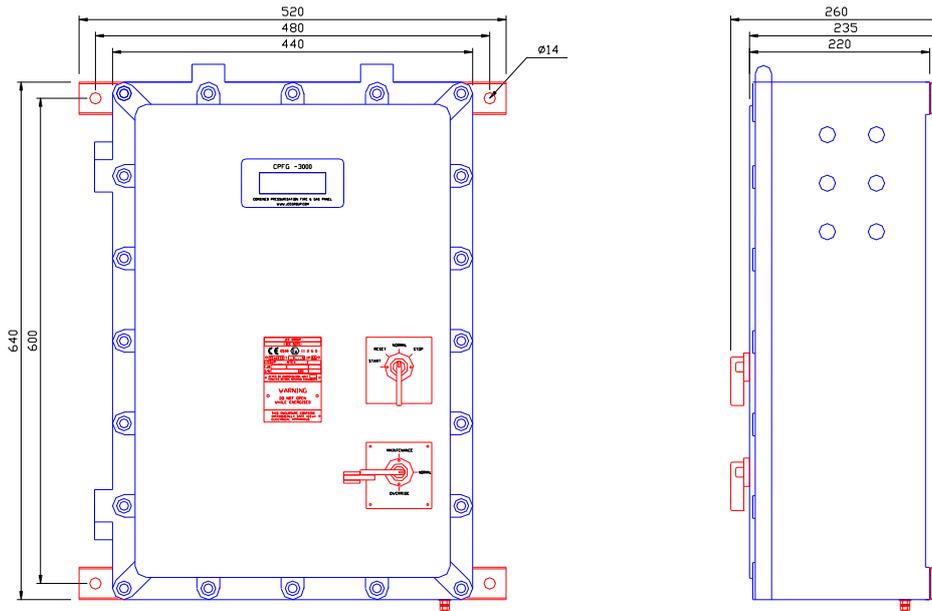
Ratings and Approvals

Categories -	 II 2 (1) G
Codes -	Ex d [ia Ga] IIB T6 Gb
Protection Grade -	Enclosure lid incorporates a gasket Providing Ingress Protection to IP66. Application of a non hardening grease to flamepaths and entries is recommended.
Certificate Nos -	TRAC12ATEX0020X IECEx TRC 12.0008X EAC & cETLus certification available on request
Temperature -	-20°C to +45°C

Certification:



Dimensions



Specifications

Ex Protection	Ex d [ia Ga] IIB T6 Gb
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 with voting logic
EMC	Emissions EN 61000-6-4 level B Immunity to fast transients EN 61000-6-2 IEC 61000-4-4 ± 2kV criterion B

Typical features

- Light weight aluminium alloy Ex d flameproof enclosure
- 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-GL-ST-E272

Ordering information

Part number: CPFG-3000

Specify cable entry and thread form on ordering.

Customised variations available on request.



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- Details of certification and conformity can be provided on request.
- All products sold subject to our terms and conditions of business.
- Health and Safety at Work Act 1974. In the UK all equipment must be installed and disposed of (as required) within the legislative requirements of the Health & Safety at Work Act 1974.
- We reserve the right to make alterations to the technical data dimensions, weights, designs and product available without notice.
- The illustrations should not be considered legally binding.