



Flameproof CPFG-4000



The CPFG-4000 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 pressurised modules used in areas which are potentially hazardous by the presence of flammable liquids, gases, or vapours.

The CPFG-4000 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 -** 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) Aluminium (EJB60)
- Finish -** Natural. A corrosion resistant finish is also available, see options.
- 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

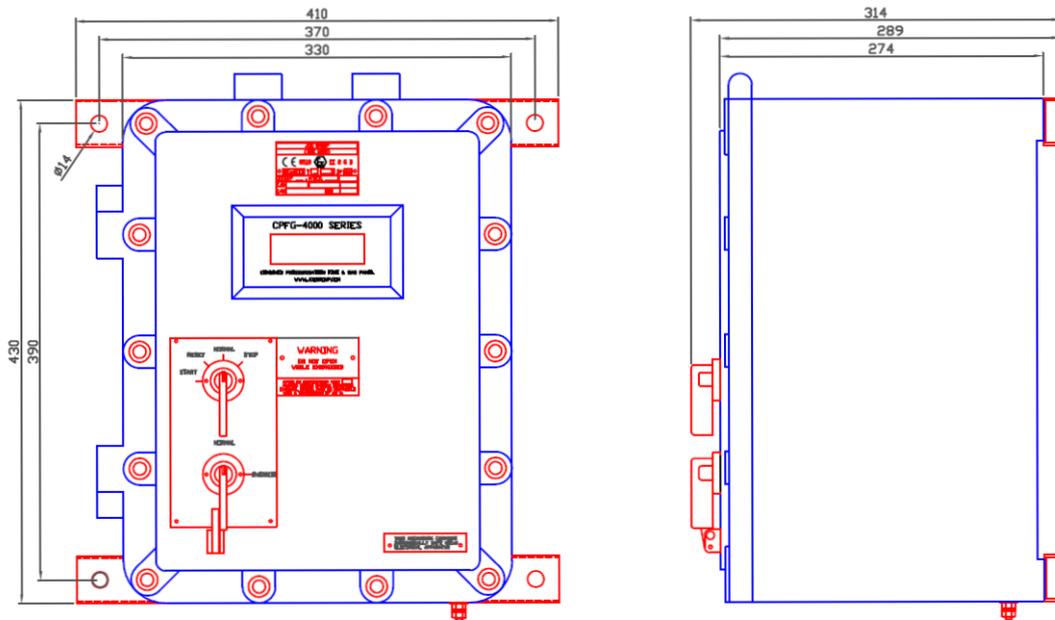
Ratings and Approvals

- Categories -**  II 2 (1) G
II 2 (1) D
- Codes -** Ex d [ia IIC Ga] IIB+H₂ T5 Gb
Ex tb [ia] IIIC T100°C Db
- Protection Grade -** IP66
- Certificate Nos -** TRAC12ATEX0020X
IECEx TRC 12.0008X
RU C-GB.M IO 62.B.03985
- Temperature -** -40°C to +60°C

Certification:



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 : 60A AC-3 : 37A 3ph Transformer@440V : 28kVA
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 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 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-GL-ST-E272

Ordering information

CPFG-4000
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.