



Flameproof MFGP Series



The MFGP series is a PLC based Fire & Gas control panel. Used in conjunction with other JCE supplied products such as gas/smoke detectors, these systems, and variations of it can be utilised to monitor the conditions of fire or gas in the atmosphere. The MFGP series is capable of monitoring signals from a single fire channel and three gas channels simultaneously. It is suitable for use with either Pellistor type or Infrared gas detectors, as standard.

Its simple operation with an easy to read backlit HMI display module make it very user friendly. The various configuration settings and alarm set points are set through the HMI in an easy to follow step by step process in association with the user manual. The unit's 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, which 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 316
- 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 (304) 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 + H₂ T6 Gb
Ex tb [ia] IIIC T85°C Db

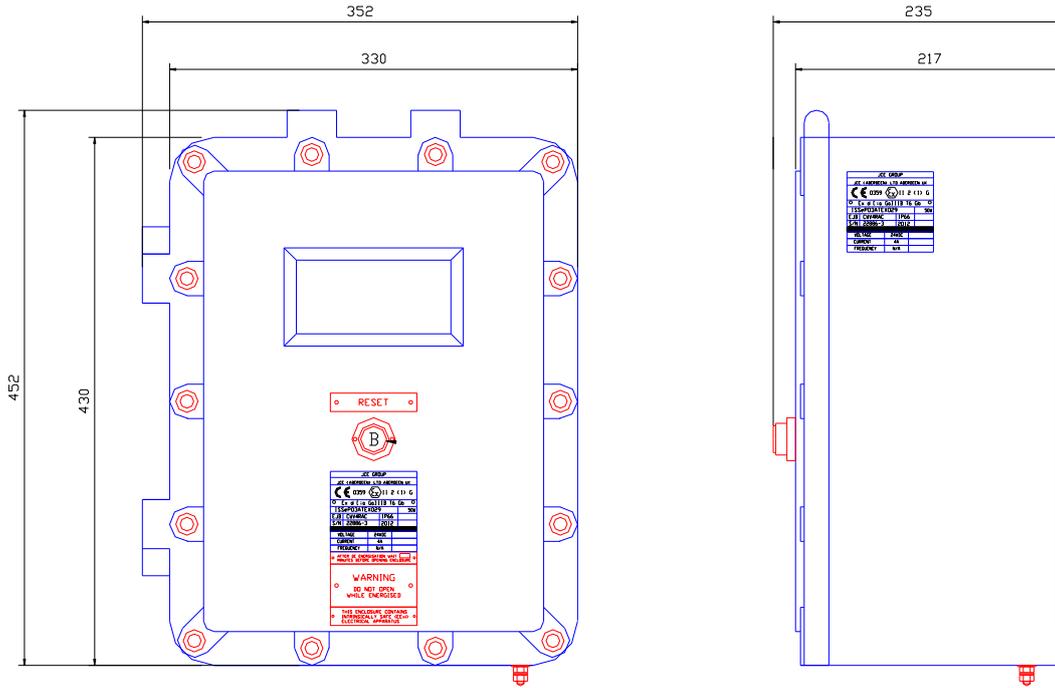
Categories

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

Certification:



Dimensions



Specifications

Ex Protection	Ex d [ia IIC Ga] IIB + H ₂ T6 Gb Ex tb [ia] IIIC T85°C Db
Supply voltage	24 Vdc 110V—240V 1PH 50/60 Hz 400V—500V 3PH 50/60 Hz
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 or 2 flammable & 1 x H ₂ S
EMC:	Immunity: EN 61000-6-2 Emissions: EN 61000-6-4

Typical features

- Light weight aluminium alloy Exd flameproof enclosure
- Three line backlit HMI controller/display
- 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
- Various C/O type alarm outputs for interfacing with external systems, including:
 - High Gas
 - Low Gas
 - Fire
 - Common Fault
- Compliant with DNV-GL-ST-E272

Customised variations available on request



JCE (Europe) Ltd, East Way, Lee Mill Industrial Estate, Ivybridge, PL21 9LL
Tel. +44 (0) 1752 690530
E-Mail: info@jcegroup.com

JCE Group (UK) Ltd, Blackburn Business Park, Aberdeen, AB21 0PS
Tel: +44 (0) 1224 798600
E-Mail: info@jcegroup.com

- 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.