PRODUCT DATA SHEET

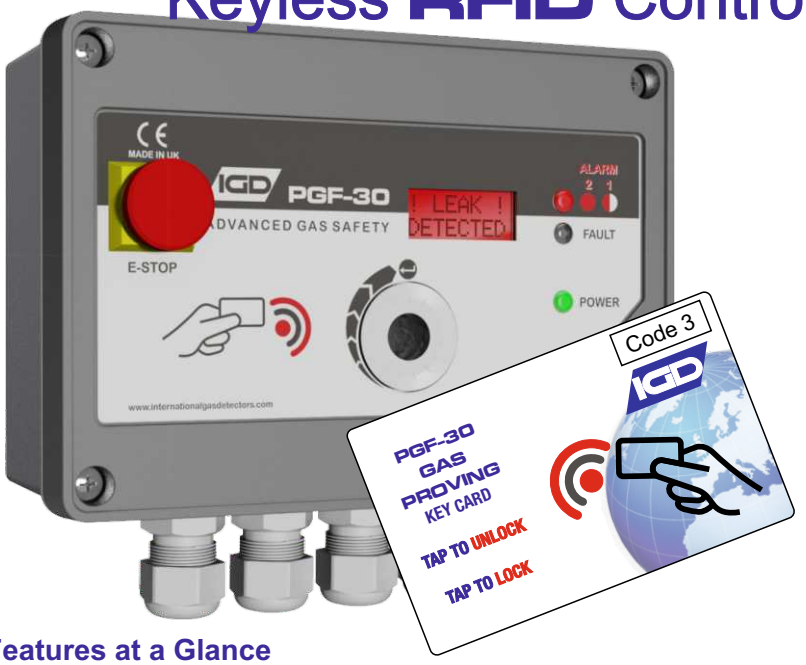
www.internationalgasdetectors.com

OLIVER IGD

Control Systems Transmitters Sensors Accessories

Keyless RFID Control PGF-30

Effective Gas Safety Proving and Gas Detection Controller



Features at a Glance

RFID to Initiate the gas proving cycle

RFID cards to control access to the system

Flexible Power Supply Options

Wall or Panel Mounting

Relay Outputs as Standard

4-20mA Output as Standard

RS485 Modbus as Standard

Control up to 24 Devices as Gas Detectors or I/O Modules

LCD Display With Multi Colour Backlight, Green for all okay, Flashes Red on Alarm, Flashes Yellow on Fault etc

E-Stop Input (System Configurable)

Dedicated Interlock to Fire Systems (System Configurable)

Battery Backup Option

Displays current live gas readings and pressure readings

RFID Gas Proving, Ventilation Control & Gas Detection, off one panel

Our range of gas proving systems can be used for:
- Commercial Kitchens, Natural/LPG gas supplies

- laboratory Gas Supplies including CO2, O2, N2O etc.

- Low pressure ranges 0-50mBAR

- High Pressure ranges up to 0-1000mBar and 0-10 Bar.

Ensuring gas pressure integrity prior to running.
The system features industry first, contactless RFID cards, to start and stop the gas proving cycle
.
Furthermore the PGF-30 gas proving controller can be used to initiate fans in case of a build up of CO2. Or it can ensure fans are running in fume cabinets etc.

Gas Detection System

As well as controlling ventilation and gas proving our systems also utilise addressable gas detection on the same panel, allowing you to have up to 24 detectors on 1 interlinked cable run. enabling you to detect over 400 gases and vapours and control a wide range of third party devices. Saving you time and money on reduced cabling and additional panel purchases.

Advantages of contactless RFID over keypads and key switches:

- RFID cards limit access to the panel. Meaning only senior staff can initiate the gas proving cycle. This gives you more ***accountability and security*** *over the life safety system.*

- It is easier to replace (and more cost effective) RFID card then it is to reset the password or replace a whole new key switch.

- No Password handling/storage required. Easy and simpler to use with RFID than find the correct password/key.

IGD International Gas Detectors
CH4 H2S CO2 NO2 SO2 NO CO

OLIVER IGD
Triton House
Crosby Street
Stockport
SK2 6SH
England

Tel: +44 (0)161 483 1415
Fax: +44 (0) 161 484 2345
Email: sales@internationalgasdetectors.com
Website: www.internationalgasdetectors.com

bsi. UKAS MANAGEMENT SYSTEMS 003
FS646773
Ref: PGF30 C

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Control Systems Transmitters Sensors Accessories

Over 400+ Hazardous, Flammable & Refrigerant Gases Detected

Standard Specifications

Power	110/230V AC 50/60Hz 25W Standard 24V DC Option
Construction	ABS
Display	2 Lines x 8 Digit LCD Display Multi-Colour Backlight (Red-Alarm, Yellow-Fault, Blue-Normal)
User	IGD Jog Wheel Option Select
Outputs	3 off SPCO Relays 4A Non-Inductive User Configurable 1 off 4-20mA Linear Output User Configurable
Other I/O	Sounder 80dB @ 100mm (Mutable) RS485 Port Modbus Dedicated E-Stop Input Dedicated Fire System Interlock
Inputs	Up to 24 off Addressable Series Detectors or I/O Modules *Note external Booster PSU may be required*
Temperature	-5 to 55 Deg C
Humidity	0-95% RH Non-Condensing
Sealing	IP54
Mounting	Wall Mount, Panel Mount Kit Option, Duct Mount Kit Option
Weight	840g

Pressure Reading

Low Range	0-50 mBar
High range	0-1000 mBar
	0-10 Bar

Popular Gases Detected

O2

CO2

N2O

CxHx

CO

VOC's

H2S

International Gas Detectors

CH4 H2S CO2 NO SO2 NO2 CO

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OLIVER IGD

Control Systems Transmitters Sensors Accessories

EC Declaration of Conformity

Issuers name and address:

Oliver IGD Limited of
Triton House
Crosby St,
Stockport,
United Kingdom

CE

Declares that the product listed as:

PGF-30

Gas Proving and Gas Detection Control Panel

Are in conformity with the provisions of the following European Directive(s) when installed, operated, serviced and maintained in accordance with the installation and operating instructions contained in the product documentation.

2004/108/EC **EMC Directive**
2014/34/EU **Low Voltage Equipment Directive** *(note not applicable to 24V DC Powered Versions)*

And that the standards and/or technical specifications referenced below have been applied or considered.

En 60079-29-1:2016	*Explosive Atmospheres. Gas Detectors. Performance Requirements of Detectors for Flammable Gases. **conforms to***
EN 61000-6-2-2005	Electromagnetic Compatibility (EMC). Generic Standards. Immunity for Industrial Environments
EN 61000-6-4-2007/A1:2011	Electromagnetic Compatibility (EMC). Generic Standards. Emission Standard for Industrial Environments.
EN 61000-3-2: 2014	Electromagnetic Compatibility (EMC). Limits for Harmonic Current Emissions (Equipment Input Current ≤ 16 A per phase)
EN 61000-3-3: 2013	
Technical File Reference	PGF30-TF9

Product Markings CE **PGF-30** *S/-serial number*

Oliver IGD Limited Operate and Independently assessed ATEX/IECEX QAN.

Quality Assurance Certificate Number
ExVeritas 16PQAN0014

Quality Assurance Notification Number:
2585

ExVeritas,
Units 16-18,
Abenbury Way,
Wrexham Industrial Estate,
Wrexham, UK, LL13 9UZ

Oliver IGD Limited operate an independently assessed ISO9001:2008 Quality Management System.

Quality Management Certificate Number
FS 646773

BSI Assurance UK LTD,
Chiswick High Road,
London
W4 4AL
UK

Testing Agency:

TUV - SUD
Octagon House
Concorde Way
PO 15 5RL
Fareham

TÜV SÜD

Mehr Sicherheit. Mehr Wert.

TUV Certificates and reports can be checked on-line at https://www.tuev-sued.de/industry_and_consumer_products/certificates

Issued on: 20th Feb 2016 At Oliver IGD Limited, Stockport, SK2 6SH , United Kingdom

Signature:

Declaration of Conformity in accordance with EN ISO/IEC 17050-1:2010

Name Andrew J Collier M.I.O.D

Position: Managing Director Date: 20th Feb 2016 Declaration Ref: PGF30-DEC-2

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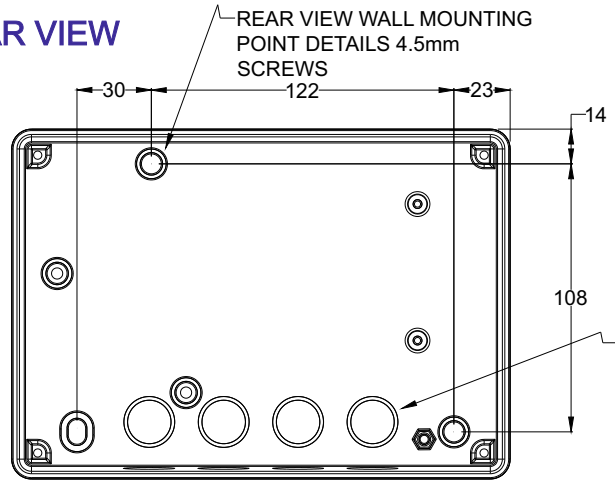
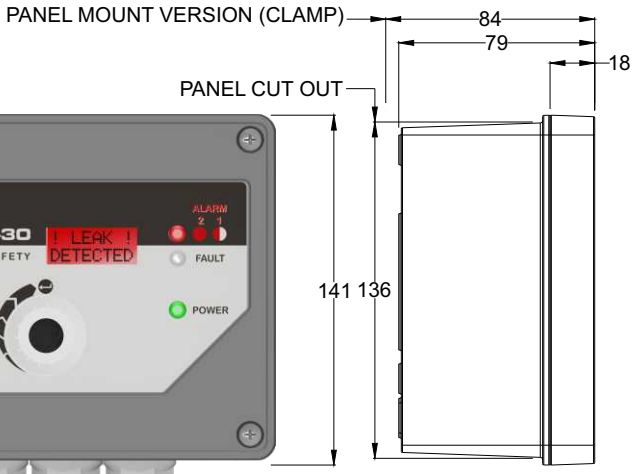
Control Systems Transmitters Sensors Accessories

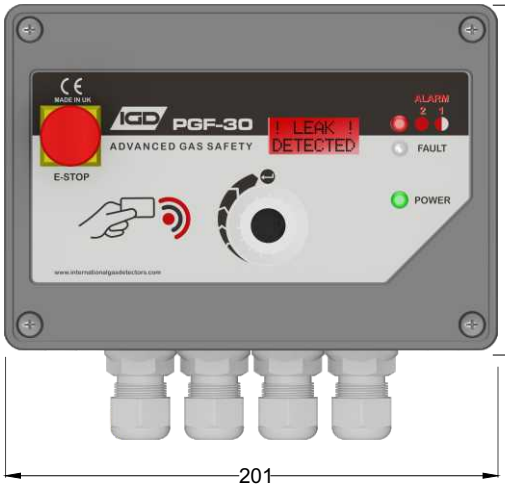
REAR VIEW



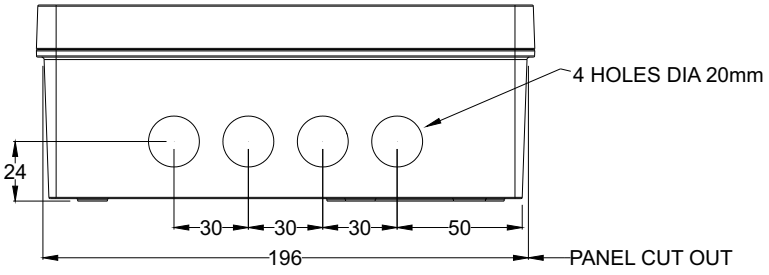
SIDE VIEW

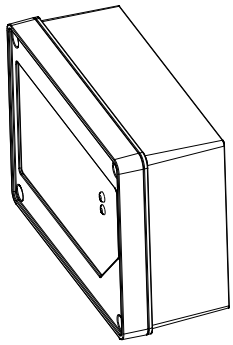


FRONT VIEW



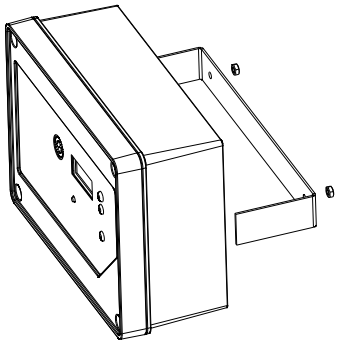
BOTTOM VIEW





Optional Battery Backup Kit
PN 5686601

Note this module uses the same style enclosure as thePGF-30 and houses batteries and charge control. It is usually mounted below the PGF-30 and is supplied with all required connectors.



Optional Panel Mounting Kit
PN 5686401

Sensor Options

Gas Pressure
Air Pressure
Air Flow
Flammable Gases
Toxic Gases
Temperature
Humidity
Motor Current

IGD International Gas Detectors
CH4 H2S CO2 NO SO2 NO2 CO

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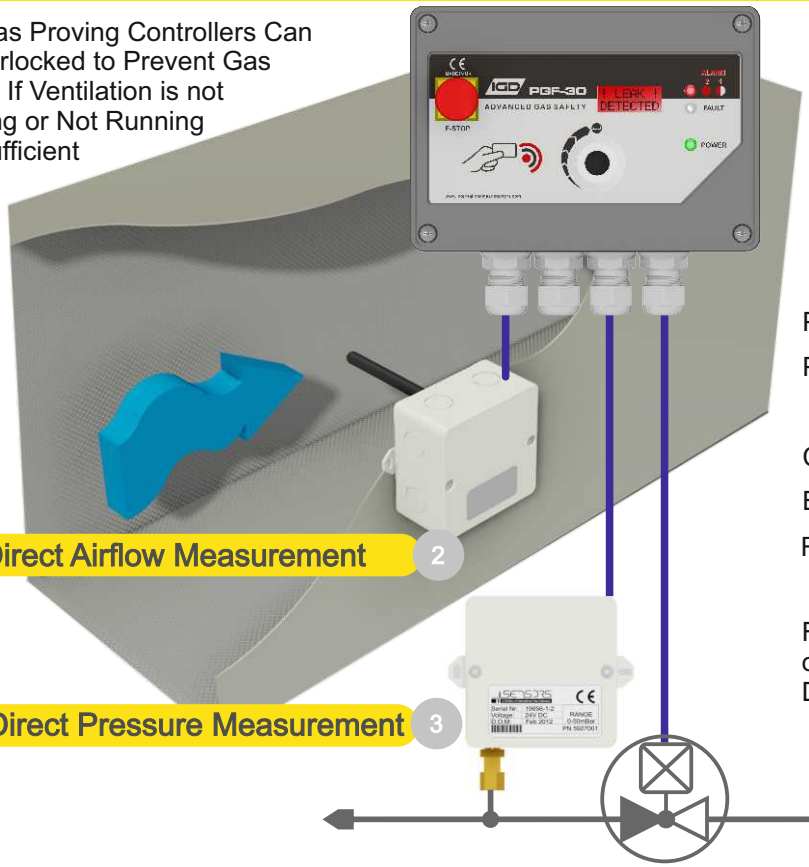
1 Intelligent Systems Enhanced Safety For Operators 1

IGD Gas Proving Controllers Can be Interlocked to Prevent Gas Supply If Ventilation is not Running or Not Running at a Sufficient Level



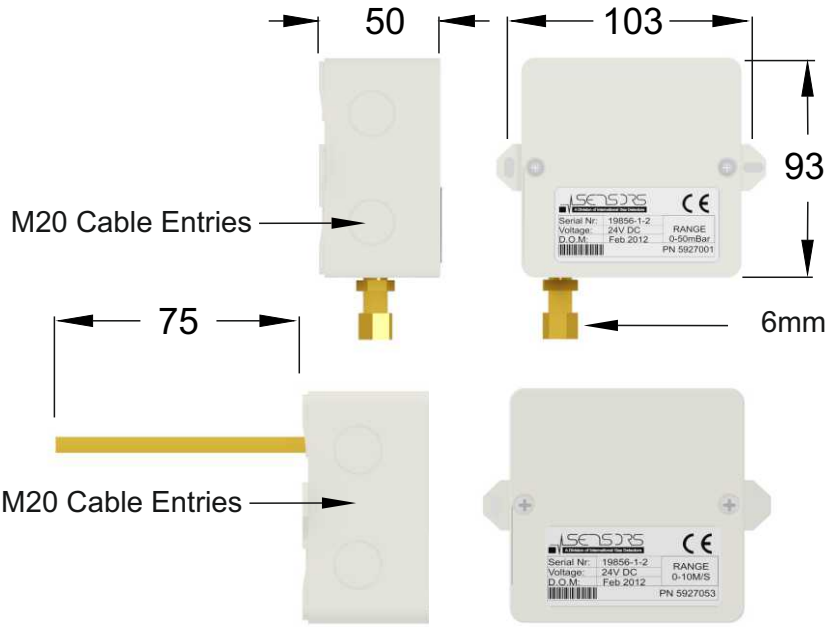
2 Direct Airflow Measurement 2

3 Direct Pressure Measurement 3

ORDER CODES

PGF-30 Controller 110/230V AC	PGF-30-RFID-230
PGF-30 Controller 24V DC	PGF-30-RFID-24
Controller Panel Mount Kit	5686401
Battery Backup Module	5686601
Replacement RFID Cards	TOC-RFID-USER

For Gas Detection and Room Status Indicator options refer to TOC-30 Series Gas Detectors Datasheets.



PRESSURE TRANSDUCER
PN: 5928701
|Range 0-50mBar
Analogue O/P

FLOW TRANSDUCER
PN: 5927501
Range 0.5 -10M/S
Analogue O/P
Relay O/P
24V DC

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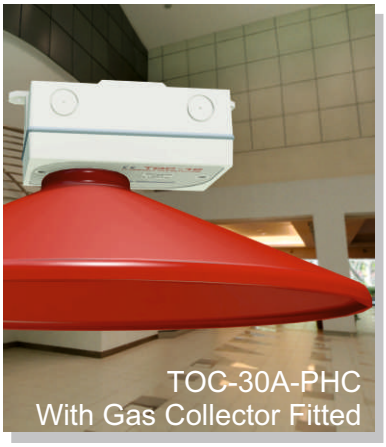
Control Systems Transmitters Sensors Accessories

TOC-30-AN2

Refer to TOC-30 Room Status Indicator Data Sheet

To compliment the PGF-30 TOC Series Gas Detectors provide accurate measurement of the background atmosphere to measure for a specific hazardous target gas. Clean lines and easy integration into existing or newly planned control systems make the TOC Series the safety engineers device of choice. Using the latest microprocessor addressable technology and software TOC Series detectors are a reliable long term monitoring solution.

TOC Series Detectors are supplied pre-calibrated ready to use and directly connect to PGF-30.



TOC-30A-PHC
With Gas Collector Fitted

Order Codes TOC-30A Series Detectors

Gas	Standard Range	Order Code	Typical Cell Life
Flammable Gases external sensor	0-100% LEL	TOC-31A-PHC	>3 Years
Flammable Gases internal sensor	0-100% LEL	TOC-30A-PHC	>3 Years
Carbon Monoxide	0-100ppm	TOC-30A-CO	>5 Years
Oxygen	0-30% Vol	TOC-30A-O2	5 Years+
Nitric Oxide	0-200ppm	TOC-30A-NO	>2 Years
Nitrogen Dioxide	0-20ppm	TOC-30A-NO2	>2 Years
Ammonia	0-100ppm	TOC-30A-NH3	>2 Years
Chlorine	0-20ppm	TOC-30A-CL2	>2 Years
Carbon Dioxide	0-5000ppm	TOC-30A-LCO2	>3 Years

TOC-30A-NDE
Allows you to control third party devices with multiple I/O

IGD can help detect over 400 Hazardous and flammable gases and vapours, please call or email if you have other gas detection requirements

TOC-30A-CO

Order Codes Accessories

Gas Collector Cone For TOC-30A-PHC	Code 50006701
Calibration Adaptor TOC-31-PHC	Code 401101E
Calibration Adaptor TOC20/30 Series	Code 5925701

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