IGD
International Gas Detectors

VOC GAS DETECTORS

Industry leading VOC detection from International Gas Detectors.

Offering the broadest application VOC detection using breakthrough PID technology. Capable of measuring over 300 compounds with ionisation energy of 10.6eV or lower.

Available for ATEX applications and safe areas either as stand alone detectors or as part of a networked system. Detectors can be diffusion based or as sampling gas detectors to suit the application.

▶ RANGE OPTIONS
Range options to suit your application

0-50ppm	0-200ppm	0-5,000ppm
0-100ppm	0-2,000ppm	

▶ Non-Electrode UV Lamp Design
IGD PID's proprietary ultraviolet (UV) lamp technology utilises non-electrode UV lamp design. This curtails the effects of sputtering and contamination which is a major drawback of current PID technology.

▶ Industry Leading Long Lamp Life
Our new standard for PID technology raises the bar for VOC detection. With our non-electrode UV patent design ensures your IGD PID sensor will last in excess of 15,000+ hours. This is a 50% increase in lamp life compared to the industry standard!

▶ Unique Patent Electrode Stack Design
Our unique electrode stack design ensures the common issues of humidity and temperature are negated and does not affect our VOC detectors. This also eliminates false readings and drift.

IGD new range of PID Detectors are setting a new standard for VOC detection. Detectably better PID from the experts in gas detection.

Always use latest version data sheets from IGD website

INVESTORS IN PEOPLE

bsi.
ISO 9001 Quality Management
ISO 14001 Environmental Management

FS646773   EMS696504

🌐 internationalgasdetectors.com

📞 +44 (0)161 483 1415

@ sales@internationalgasdetectors.com

in /international-gas-detectors-ltd

Triton House

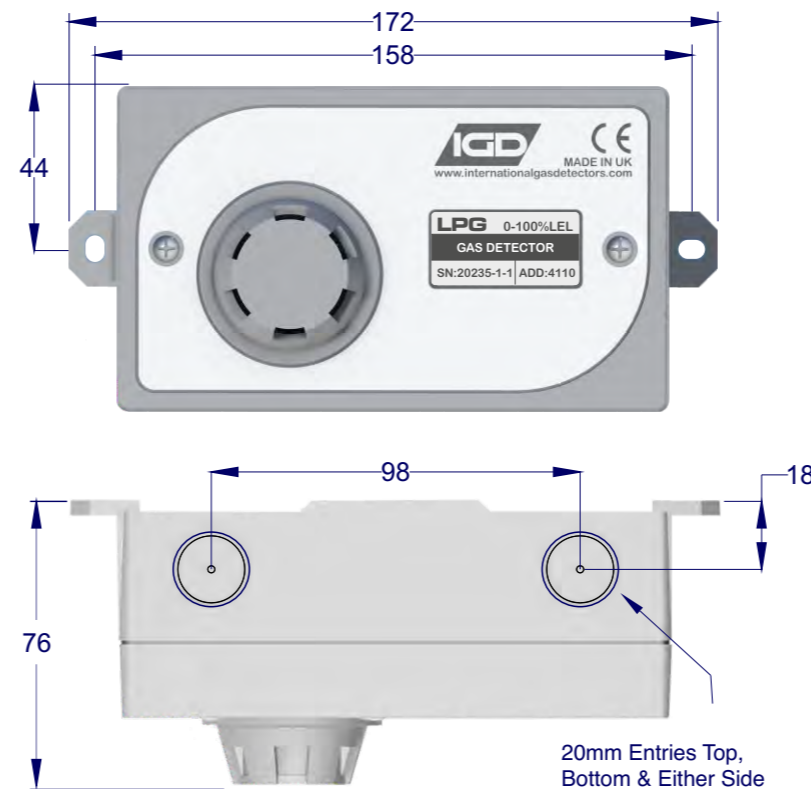Crosby Street

Stockport

SK2 6SH

International Gas Detectors

TOCSIN 750 SERIES SAFE AREA
Addressable PID VOC Detector for Non-ATEX Areas

IGD's TOC-750 safe area gas detectors have been designed for light industrial and commercial environments. Providing clients with a detector suited for their application.

DIMENSIONS

172
158
44
98
18
76

20mm Entries Top, Bottom & Either Side

ORDER CODES

Part Number	Description
Diffusion Types	
TOC-750-PID05	0-50ppm Isobutylene Range
TOC-750-PID01	0-100ppm Isobutylene Range
TOC-750-PID02	0-200ppm Isobutylene Range
TOC-750-PID20	0-2000ppm Isobutylene Range
TOC-750-PID50	0-5000ppm Isobutylene Range

Full information see individual data sheets for TOC-750 safe area detectors and TOC-750S series samplers.

CABLES

Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator

Typically SWA, FP200, CY Screened or Similar

GENERAL SPECIFICATIONS

Power	12 to 26V DC
Construction	ABS
Sensor	Direct Pellistor Interface
	Input for IGD Toxic,Oxygen, Infra red and PID detectors
Communication	IGD Sentinel+ Protocol, 2-Wire Connection L1,L2
I/O Diffusion Types	1 off SPCO Relays 4A/230V AC Non-Inductive User Configurable from 650/750 Controllers 2 multifunction ports as: Digital Input Max 0.2Hz Digital Input 0-3V Max 0.2Hz 4-20mA input or Solid State Output 24V DC Max 300mA shared Across both Ports

**Please see individual datasheets for full detector specifications These can be found on internationalgasdetectors.com/downloads

Or on: www.internationalgasdetectors.com/product/toc-750-addressable-safe-area-gas-detector/
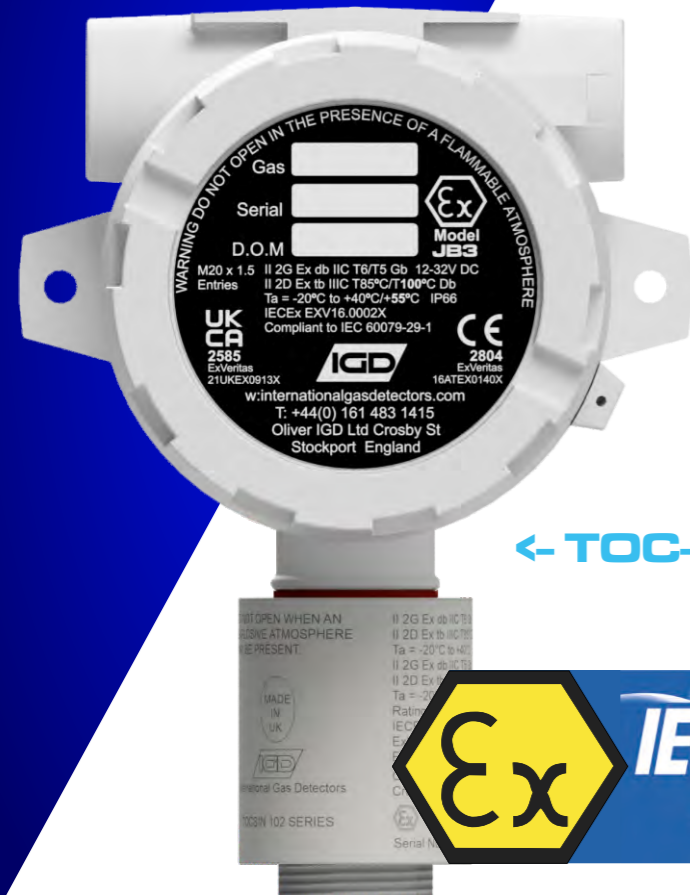
DIFFUSION TYPE FEATURES

> IGD Industry Unique Sentinel+ Digital/Addressable Technology.

> IP54 Waterproof and Dust Proof.

> 7 Input and output per TOC-750 detector node.

> Versatile PID design for over 300 VOC gases.

> Unique IGD labyrinth sensor design protects sensors from dust and dirt ingress.

> Service via secure wifi pages.

> Typically 70% cost saving on installation alone.

> In excess of 15,000 hours runtime, 50% more than competitors.

> Plug replaceable sensors - pre-calibrated.

> Low ppm detection levels available.

> 10 Year warranty (terms and conditions apply)

> Secure digital communication.

> Not effected by humidity

> Minimising false readings

International Gas Detectors

TOCSIN 750X SERIES
Addressable Photoionisation Detector

IGD's PID sensors are the most accurate and stable PID defectors available on the market. The TOC-750X series is an ATEX Addressable detector using our leading digital technology.

← **TOC-750X**

← **TOC-750XD**

ORDER CODES

Part Number	Range	Description
> TOC-750X-PID05	0-50ppm	ATEX/IECEx Addressable Isobutylene Calibration
> TOC-750X-PID01	0-100ppm	ATEX/IECEx Addressable Isobutylene Calibration
> TOC-750X-PID02	0-200ppm	ATEX/IECEx Addressable Isobutylene Calibration
> TOC-750X-PID20	0-2,000ppm	ATEX/IECEx Addressable Isobutylene Calibration
> TOC-750X-PID50	0-5,000ppm	ATEX/IECEx Addressable Isobutylene Calibration

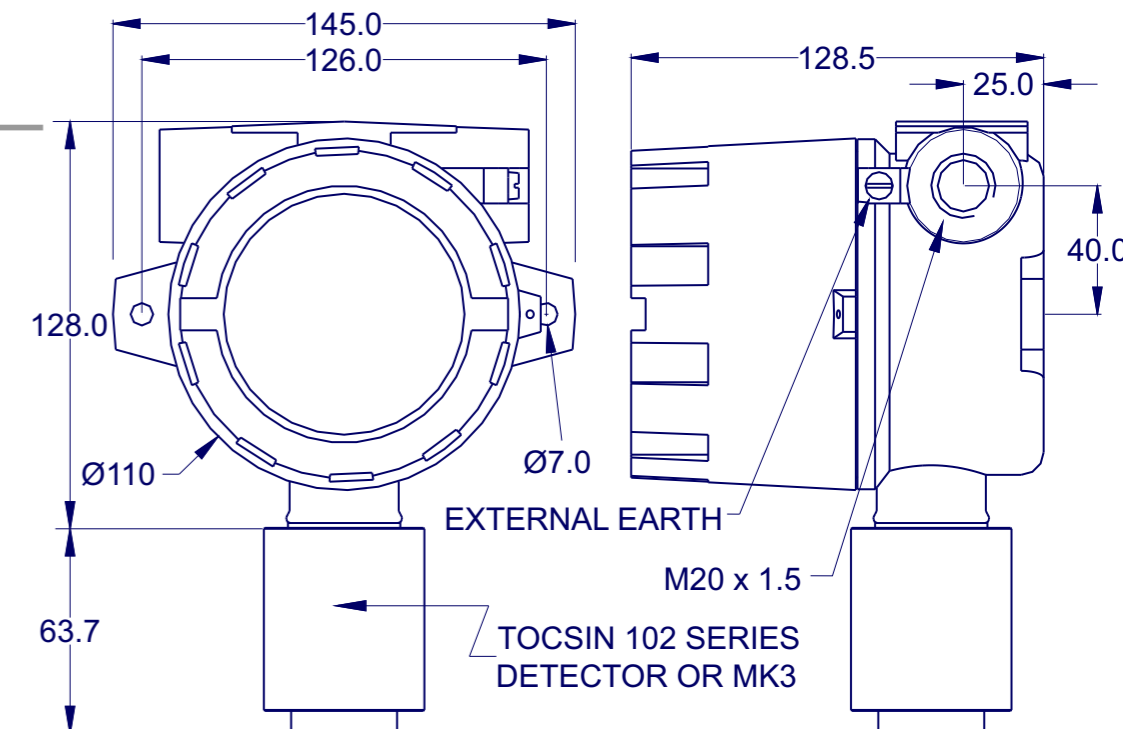*Please note for TOC-750XD part numbers please contact IGD*

CABLES

Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator

Typically SWA, FP200, CY Screened or Similar

GENERAL SPECIFICATIONS

Power	12 to 26V DC
Construction	Junction Box: Aluminium Alloy, Powder Coated (Stainless Steel Option) Detector: 316 Stainless Steel
Communication	IGD Sentinel+ Protocol, 2-Wire Connection L1,L2
Temperature	-20 to 55 Deg C**
Humidity	0-95% RH Non-Condensing
Sealing	Junction Box: IP66 Sensor:IP66
Mounting	Wall Mount
Weight ATEX/IECEx	1.35Kg Zone1 and 2 (Gas). 21 and 22 (Dust)

**Please see individual datasheets for full detector specifications and ATEX/IECEx approvals
These can be found on internationalgasdetectors.com/downloads

Or on:
www.internationalgasdetectors.com/product/750-atex-addressable-gas-detector/

FEATURES

 > IGD Industry Unique Sentinel+ Digital/Addressable Technology.
> IP67 Waterproof and Dust Proof.
> ATEX/IECEX rated for Zone 1 and 2 (Gas) 21 and 22 (Dust)
> Versatile PID design for over 300 VOC gases.
> Display and non-display options.
> Service via secure wifi pages.
> Typically 70% cost saving on installation alone.
> In excess of 15,000 hours runtime - 50% more than competitors.
> Plug replaceable sensors - pre-calibrated.
> Low ppm detection levels available.
> 10 Year warranty (terms and conditions apply)
> Secure digital communication.
> Not effected by humidity
> Minimising false readings

DIMENSIONS

145.0
126.0
128.5
25.0
128.0
Ø110
40.0
Ø7.0
63.7
EXTERNAL EARTH
M20 x 1.5
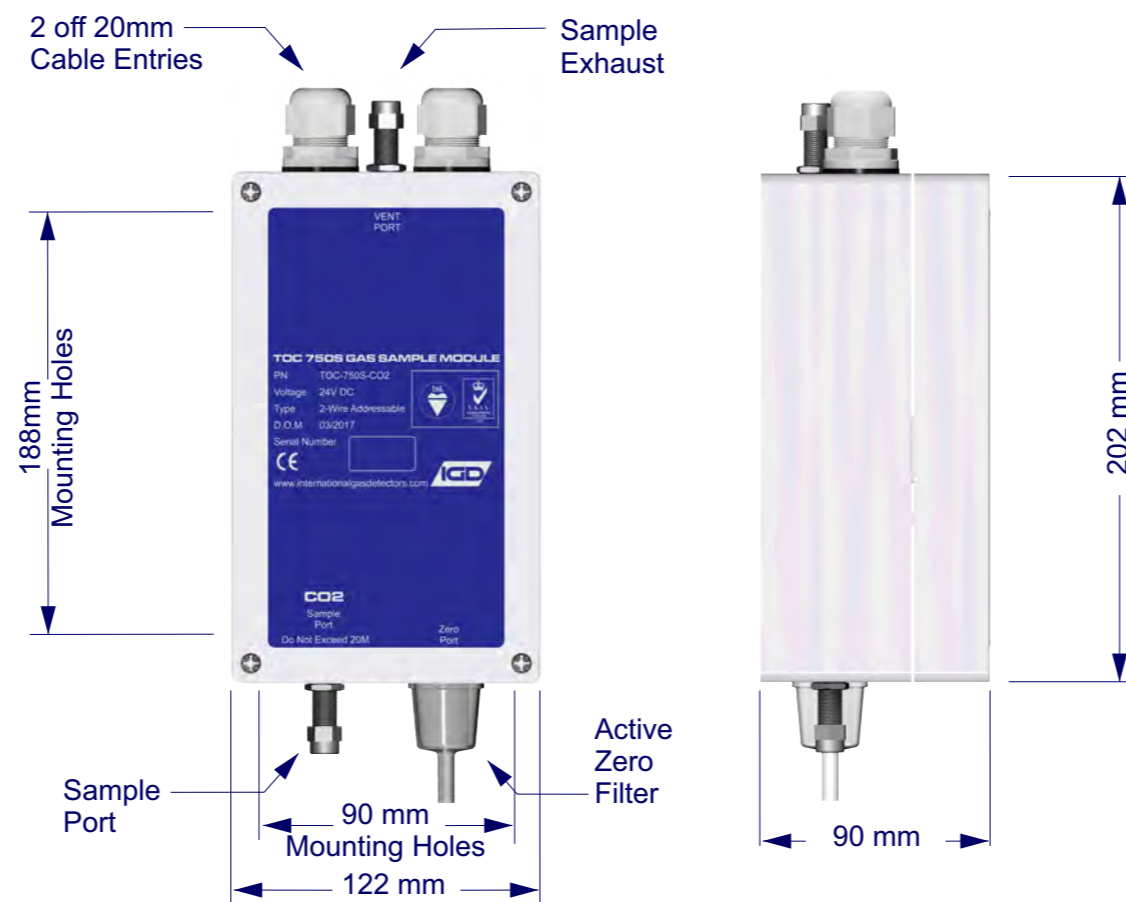TOCSIN 102 SERIES DETECTOR OR MK3

IGD

International Gas Detectors

TOCSIN 750S SERIES SAMPLER
Addressable Sampling (Aspirated) Gas Detector

The TOC-750S aspirated VOC detector is ideal for areas that are hard to access, potentially harmful for sensors or areas that need stable low level VOC alarms.

DIMENSIONS

2 off 20mm Cable Entries

Sample Exhaust

188mm Mounting Holes

202 mm

Sample Port

Active Zero Filter

90 mm Mounting Holes

122 mm

90 mm

TOC 750S GAS SAMPLE MODULE
PN TOC-750S-CO2
Voltage 24V DC
Type 2-Wire Addressable
D.O.M 03/2017
Serial Number
www.internationalgasdetectors.com
CO2 Sample Port
Do Not Exceed 20M
Zero Port

ORDER CODES

Part Number	Description
Sampling Types	
TOC-750S-PID05	0-50ppm Isobutylene Range
TOC-750S-PID01	0-100ppm Isobutylene Range
TOC-750S-PID02	0-200ppm Isobutylene Range
TOC-750S-PID20	0-2000ppm Isobutylene Range
TOC-750S-PID50	0-5000ppm Isobutylene Range

Full information see individual data sheets for TOC-750S series samplers.

CABLES

Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator

Typically SWA, FP200, CY Screened or Similar

GENERAL SPECIFICATIONS

Power	12 to 26V DC
Construction	ABS
Sensor	Direct Pellistor Interface
	Input for IGD Toxic,Oxygen, Infra red and PID detectors
Communication	IGD Sentinel+ Protocol, 2-Wire Connection L1,L2
I/O Samplers	4 off SSR outputs (switched Neg 24v DC, common 200mA load shared across all O/P's) Op1 dedicated to low flow.
Sealing	IP54

****Please see individual datasheets for full detector specifications.
These can be found on internationalgasdetectors.com/downloads**

Or on:
www.internationalgasdetectors.com/product/tocsin-750s-aspirated-gas-detector/

SAMPLER FEATURES

> IGD Industry Unique Sentinel+ Digital/Addressable Technology.

> Sample up to 20M away.

> Versatile PID design for over 300 VOC gases.

> Non-Electrode UV Lamp design eliminating the effects of sputtering and contamination.

> Service via secure wifi pages.

> Typically 70% cost saving on installation alone.

> In excess of 15,000 hours runtime, 50% more than competitors.

> Plug replaceable sensors - pre-calibrated.

> Low ppm detection levels available.

> 10 Year warranty (Terms and Conditions apply)

> Secure digital communication.

> Not effected by humidity

> Minimising false readings

IGD
International Gas Detectors

TOCSIN 903 SERIES
Standalone ATEX PID Gas Detector

TOCSIN 903 Series ATEX Transmitters can be fitted with any of the VOC range options available from IGD as well as any other detector type from our wide range.
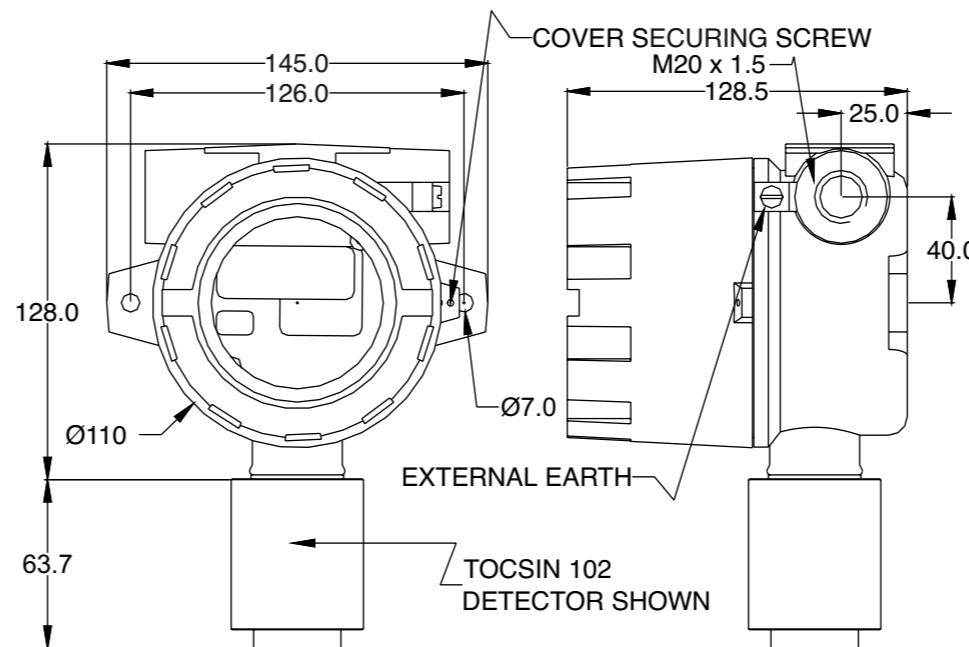
ORDER CODES
4-20mA OUTPUT

Part Number	Description
TOC-903-PID05	0-50ppm as Isobutylene
TOC-903-PID01	0-100ppm as Isobutylene
TOC-903-PID02	0-200ppm as Isobutylene
TOC-903-PID20	0-2000ppm as Isobutylene
TOC-903-PID50	0-5000 ppm as Isobutylene

ORDER CODES
RELAY & 4-20mA OUTPUT

Part Number	Description
TOC-903R-PID05	0-50ppm as Isobutylene
TOC-903R-PID01	0-100ppm as Isobutylene
TOC-903R-PID02	0-200ppm as Isobutylene
TOC-903R-PID20	0-2000ppm as Isobutylene
TOC-903R-PID50	0-50000 ppm as Isobutylene

CABLES

Supported Installation Cables 2 Core 1.5mmSQ or 2.5mmSQ See IGD Cable System Calculator

Typically SWA, FP200, CY Screened or Similar

Dimensional drawing: 145.0 / 126.0 / 128.5 / 25.0 / 40.0 / 128.0 / 63.7 / Ø110 / Ø7.0

COVER SECURING SCREW M20 x 1.5

EXTERNAL EARTH

TOCSIN 102 DETECTOR SHOWN

TOC-903 FEATURES

> Standalone 4-20mA and relay outputs

> IP68 Waterproof and Dust Proof.

> Versatile PID design for over 300 VOC gases.

> Non-Electrode UV Lamp design eliminating the effects of sputtering and contamination.

> In excess of 15,000 hours runtime, 50% more than competitors.

> Plug replaceable sensors - pre-calibrated.

> ATEX/IECEx Zone 1 and 2 (Gas) and 21 and 22 (Dust)

> 10 Year warranty (Terms and Conditions apply)

> One-man calibrations

> Non-intrusive magnetic wand display

> Not effected by humidity

> Minimising false readings

SPECIFICATIONS

Power	18 TO 32V DC with Relay Option. Typically 4W 12 to 32V DC without Relay Option.
Electrical Outputs	3 Wire 4-20mA (4-Wire Addressable Capability)
JB Housing Material	Junction Box, Copper Free Aluminium Alloy Epoxy Coated Option for 316 Stainless Steel and Marine Paint Finishes
Sensor Housing Material	Sensor, Stainless Steel 316 S16
Explosion Protection	Zone 1 and 2 (gas) and 21 and 22 (Dust)
Explosion Protection Sensor	Zone 1 and 2 (Gas) 21 and 22 (Dust)
Housing Dimensions (mm)	110 Diameter x 127 High Plus Detector Option
Cable Entry	2 x M20 X1.5 , NPT Options 1 x M20 X 1.5 Detector Entry

**Please see individual datasheets for full detector specifications and approvals. These can be found on internationalgasdetectors.com/downloads*

Or on: www.internationalgasdetectors.com/product/tocsin-903-atex-standalone-gas-detector-transmitter/

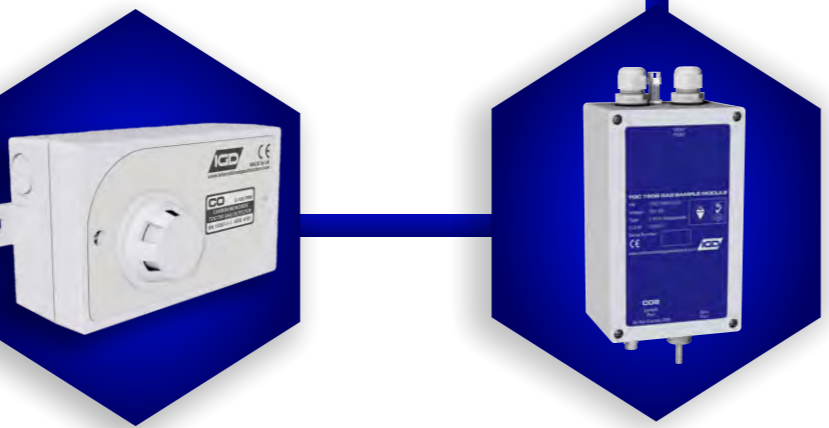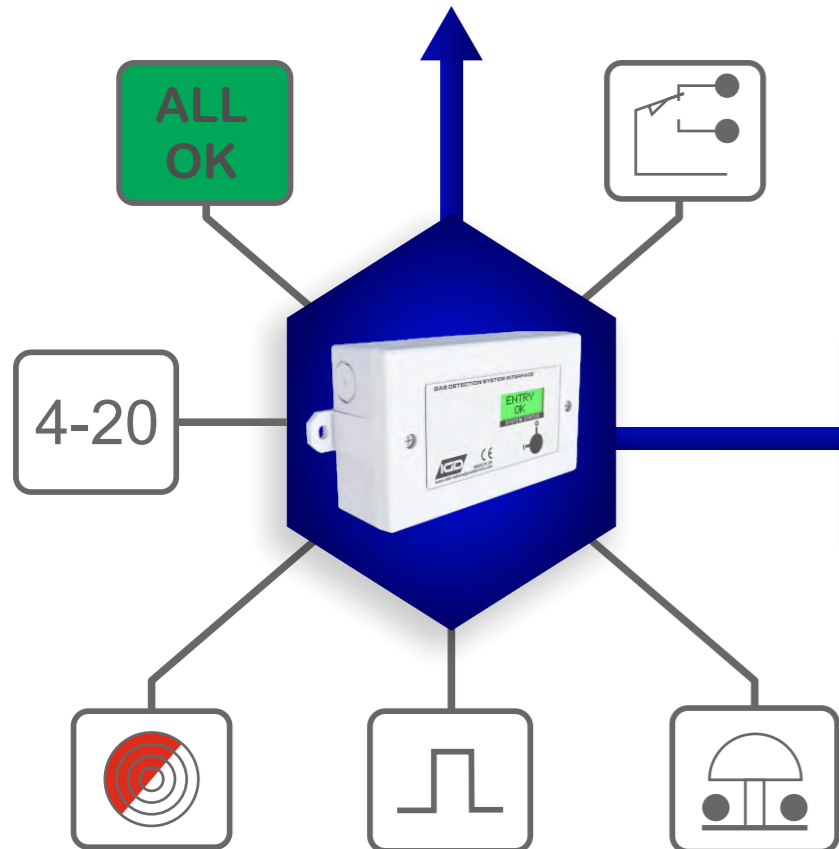# Talk to the Experts in PID Technology and VOC Gas Detection

IGD offer 10 year warranty on our PID gas detectors* and paired with our specialist knowledge in PID detectors, you are guaranteed to be getting the highest quality of aftercare. IGD are the oldest, independent gas detection manufacturer in the world with 100 years of gas detection experience, over 2 decades of PID sensor experience and an aftercare team that are available around the UK and worldwide. We can offer detectably better, PID detectors coupled with expert training and information on photoionisation detectors, straight from the manufacturer.

THE POWER OF 2

One 2-Core Cable - Everything Connected

T635

T650

T750

TOC-750 Series Gas Detectors can be addressably connected to:

TOC-635, TOC-650 or TOC-750 Controllers.

Up to 32 detector nodes or I/O devices can be interfaced on each addressable cable run.

IECEx **Ex**

OPTIONS	SAFE AREA	ATEX	SAMPLER	RSI
Sensor I/P Toxic, IR, PID	1	1	2	N
Sensor I/P Pellistor	1	1	1	1
4-20mA I/P *	2	2 †	N	2
Digital I/P *	2	2 †	N	2
Counter I/P *	2	2 †	N	2
Relay O/P *	2	2 †	N	1
Digital O/P *	2	2 †	4	2
2 x 8 Display	N	1	N	1
Sounder	1 ††	N	N	1
Estop	N	N	N	1
Key Switch	N	N	1	1

KEY

ALL OK	Room Status Indicator
	Control Relay
4-20	mA Input Signal
	Beacon - Sounder
	Digital Input
	E-Stop / Break Glass / Call Point

† In order to utilise this option a break out junction box is required.

* 2 Multi-Function I/O Ports. Option Selectable in Any Combination

†† 750B Version With Audible and Visual Alarms

1 Number available per a detector.

ALL OK

4-20

Room status Indicators.
ATEX Gas Detectors.
Sampling Gas Detectors.
I/O Cards.
One System, Ultimate Flexibility, No Compromises.