

APPLICATION DATA SHEET

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OLIVER IGD

Control Systems

Transmitters

Sensors

Accessories



TOCSIN 103 Series Gas Detectors

- ▣ 4-20mA Device 2 and 3 Wire
- ▣ Addressable Versions
- ▣ Compact Size
- ▣ Ingress Protection IP66
- ▣ Safe Area Use

Available as:

- ▣ 2 Wire Toxic Gas Detector
- ▣ 2 Wire Oxygen Sensor
- ▣ 3 Wire 'Pellistor' Flammable Gas Detector.
- ▣ 3 Wire 'Infra Red' Flammable Gas Detector
- ▣ 3 Wire 'Infra Red' CO2 Gas Detector

The Tocsin 103 series of gas detectors are designed for cost effective safe area gas detection solutions. They incorporate micro processor technology to give a stable 4-20mA process signal output. The in built processor can be used to pre-calibrate the sensor prior to installation. Alternatively calibration can be achieved on site via the Oliver IGD control panel or locally using a handheld PC device or laptop. A range of sensing technologies can be incorporated into the housing to provide the most appropriate detection method. Available sensor types include IGD's own MKIII and Type B Pellistors, Infra red and Electrochemical devices.

General Specification

Specification	
Power supply	12 to 24V DC
Electrical Outputs	2 and 3 Wire 4-20mA
Temperature	-10°C to +50°C (Pellistors to -30°C)
Humidity	15 to 90% RH non-condensing
Ingress Protection	IP66
Housing Material	Powder Coated Zinc Alloy
Protection Concept	Safe Area
Dimensions (mm)	100W x 100H x 80D (mm)
Cable Entry	20mm
Weight	700 grams

Flammable Gases
Carbon Dioxide
Carbon Monoxide
Nitric Oxide
Nitrogen Dioxide
Ammonia
Oxygen
and many more

W I T H U S

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TOCSIN 103

Toxic, Flammable & Oxygen Gas Detectors

Sensor type	Basic Part Number	Suffix 'A' For Addressable Sensor	Min Range	Max Range
Flammable Gas MK3 Sensor 4-20mA All Flammable Gases Typically: Methane Propane n-Butane n-Pentane n-Hexane N-Heptane n-Octane Hydrogen Methanol Ethanol Iso Propyl Alcohol Acetone Methyl Ethyl Ketone Benzene Toluene Di-ethyl Ether Cyclohexane Ammonia	5129901	A		0-100%LEL
Flammable Gases Infra-Red Point Methane Propane n-Butane n-Pentane n-Hexane	5130001	A		0-100%LEL
Carbon Dioxide Infra-Red Point	5130101	A	0-5000ppm	0-5%
Carbon Monoxide	5130201	A	0-50ppm	0-1000ppm
Nitric Oxide	5130301	A	0-50ppm	0-500ppm
Nitrogen Dioxide	5130401	A	0-10ppm	0-50ppm
Chlorine	5130501	A	0-5ppm	0-50ppm
Hydrogen Sulphide	5130601	A	0-20ppm	0-200ppm
Ammonia	5130701 5130801	A A	0-100ppm 0-500ppm	0-500ppm 0-1000ppm
Oxygen	5130901	A	0-5%	0-25%
Sulphur Dioxide	5131001	A	0-10ppm	0-100ppm



IGD Manufactured Pellistors
MKIII & Type B
Poison Resistant
High Reliability
Field Proven



Infra Red Gas Detectors



Electrochemical Gas Detectors

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