

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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