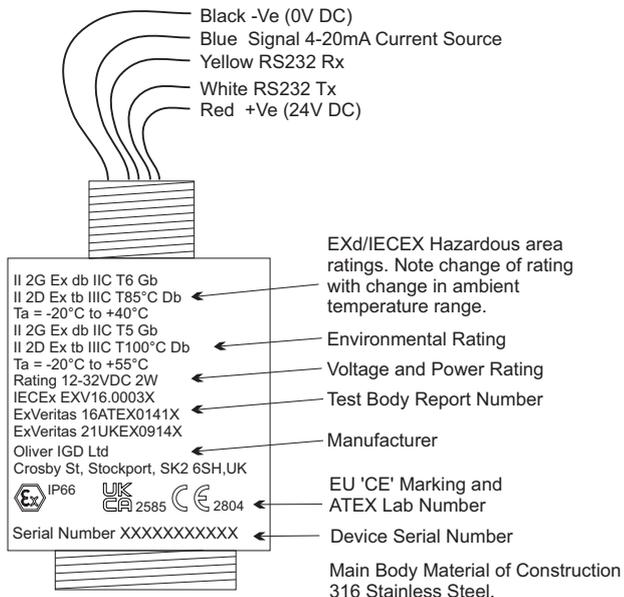
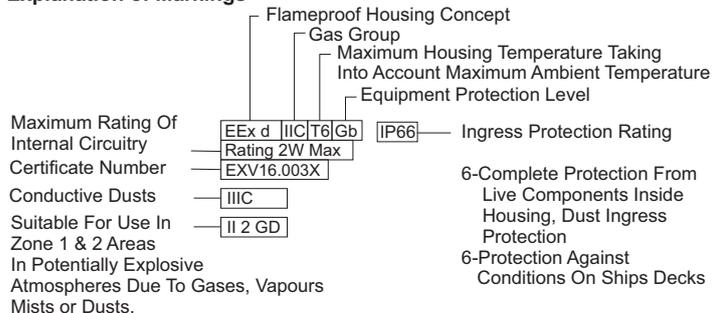


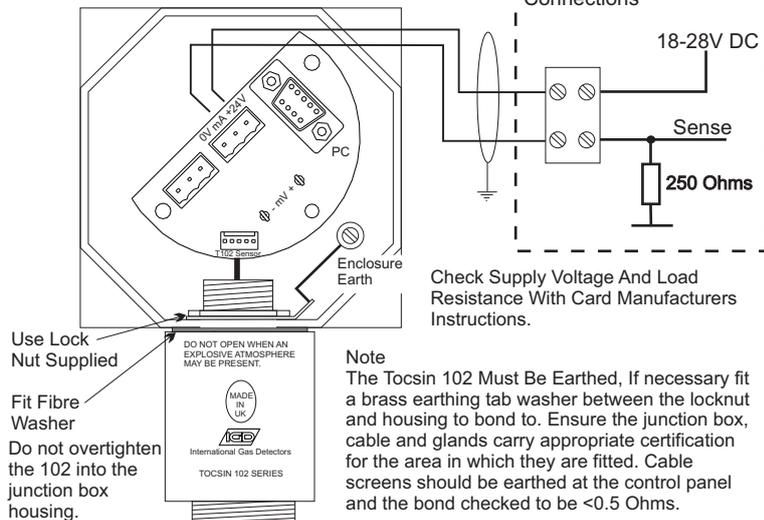
TOCSIN 102 4-20mA 2 Wire Gas Transmitter.



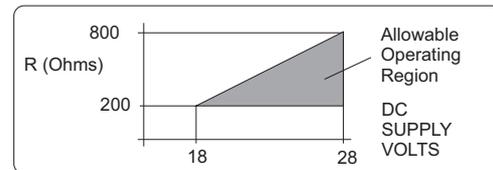
Explanation of Markings



Fitting, Service and Maintenance



Mounting Thread
 M20 x 1.5



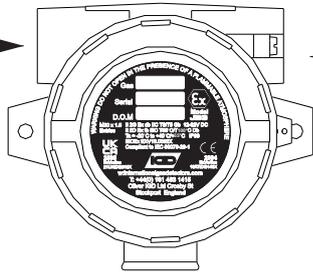
There are no user serviceable components inside the Tocsin 102.

Do not connect to portable equipment, Ensure protection from Impact

Under no circumstances should the housing be opened in a potentially hazardous atmosphere.

Calibration should be undertaken at a minimum of six monthly intervals.

Refer to Configurator manual for more advanced options, available from Oliver IGD Limited.



- Standard Junction Box EEXd 5045801
- Stainless Steel Junction Box EEXd 5045802
- Polyester Junction Box EXE 5048503

Common Tocsin 102 Part Numbers:
 (Add suffix 'A' for addressable versions, full List refer to website & data sheets)

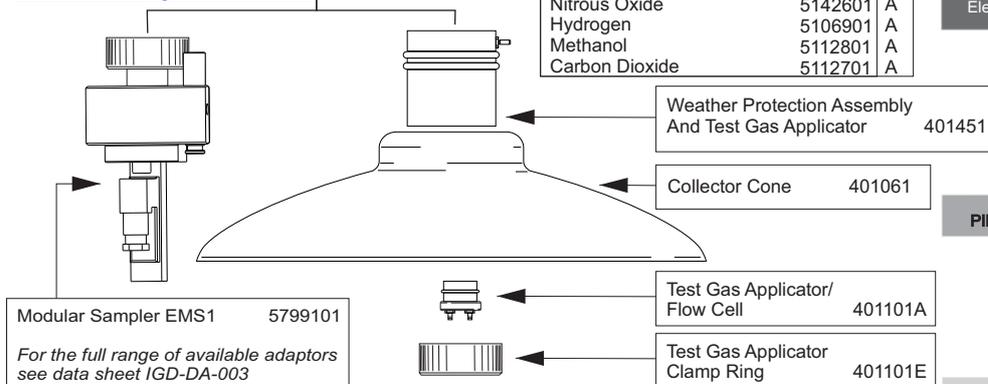
- Flammable Gases Infra Red 5107901 A
- Carbon Monoxide 5107101 A
- Nitric Oxide 5106801 A
- Nitrogen Dioxide 5106301 A
- Hydrogen Cyanide 5107201 A
- Ozone 5106201 A
- Hydrogen Sulphide 5106501 A
- Ammonia 5107001 A
- Oxygen 5106702 A
- Sulphur Dioxide 5106401 A
- Hydrogen Chloride 5106101 A
- Hydrogen Sulphide 5105501 A
- Nitrous Oxide 5142601 A
- Hydrogen 5106901 A
- Methanol 5112801 A
- Carbon Dioxide 5112701 A

Oliver IGD offer a comprehensive range of control panel options for both safe area and ATEX operation. Please refer to Oliver IGD limited for further details.

www.internationalgasdetectors.com



20 Ex db IIC T8 Gb
 # 20 Ex db IIC T6 IIC Gb
 Ta = -20°C to +40°C
 # 20 Ex db IIC T5 Gb
 # 20 Ex db IIC T100°C Gb
 Ta = +20°C to +100°C
 Rating: 2-2000 L/min
 IECEx EXd IIC 0003X
 ENEC 1813EX0141X
 EAC 0101 2118EX0141X
 Class II Div 2
 Crosby St. Stockport, SK2 8BH UK
 IGD
 Serial Number XXXXXXXXXX



For the full range of available adaptors see data sheet IGD-DA-003



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 Fax: +44 (0) 161 484 2345

Email: sales@internationalgasdetectors.co.uk
 Website: www.internationalgasdetectors.co.uk

Oliver IGD Limited Reserve the right to amend specifications without prior notice

Ref SL-037 INFO215 Rev 5

TOCSIN 102 SERIES GAS DETECTORS

The Tocsin 102 series of gas detectors are ATEX approved sensors which incorporate micro processor technology to give a stable 4-20mA process signal output. The addressable option allows extensive reductions in cost of installation through material and labour savings. The in built processor can be used to pre-calibrate the sensor prior to installation. A range of sensing technologies can be incorporated into the housing to provide the most appropriate detection method. Available sensor types include Infra red and Electrochemical and PID devices.

Technology	Used to Monitor	Available Ranges													
Infra-Red	Most Flammable Gases, Vapours And Carbon Dioxide, Typically:														
	<table border="0"> <tr> <td>Methane</td> <td>Ethanol</td> <td rowspan="8">ppm and % Ranges Available</td> </tr> <tr> <td>Propane</td> <td>Iso Propyl Alcohol</td> </tr> <tr> <td>n-Butane</td> <td>Acetone</td> </tr> <tr> <td>n-Pentane</td> <td>Methyl Ethyl Ketone</td> </tr> <tr> <td>n-Hexane</td> <td>Benzene</td> </tr> <tr> <td>Methanol</td> <td>Toluene</td> </tr> <tr> <td>Carbon Monoxide</td> <td>CO2</td> </tr> </table>	Methane	Ethanol	ppm and % Ranges Available	Propane	Iso Propyl Alcohol	n-Butane	Acetone	n-Pentane	Methyl Ethyl Ketone	n-Hexane	Benzene	Methanol	Toluene	Carbon Monoxide
Methane	Ethanol	ppm and % Ranges Available													
Propane	Iso Propyl Alcohol														
n-Butane	Acetone														
n-Pentane	Methyl Ethyl Ketone														
n-Hexane	Benzene														
Methanol	Toluene														
Carbon Monoxide	CO2														
Electrochemical	Most Common Toxic Gases And Oxygen Typically:														
	<table border="0"> <tr> <td>Carbon Monoxide</td> <td>Oxygen</td> <td rowspan="5">ppm and % Ranges Available</td> </tr> <tr> <td>Nitric Oxide</td> <td>Hydrogen Sulphide</td> </tr> <tr> <td>Nitrogen Dioxide</td> <td>VOC's</td> </tr> <tr> <td>Hydrogen Sulphide</td> <td></td> </tr> <tr> <td>Sulphur Dioxide</td> <td></td> </tr> </table>	Carbon Monoxide	Oxygen	ppm and % Ranges Available	Nitric Oxide	Hydrogen Sulphide	Nitrogen Dioxide	VOC's	Hydrogen Sulphide		Sulphur Dioxide				
Carbon Monoxide	Oxygen	ppm and % Ranges Available													
Nitric Oxide	Hydrogen Sulphide														
Nitrogen Dioxide	VOC's														
Hydrogen Sulphide															
Sulphur Dioxide															
PID	Low Level Monitoring of a wide Range of Toxic and Flammable Gas Hazards Typically:	ppb and ppm Ranges Available													
	VOC's (Volatile Organic Compounds) TIC's (Toxic Industrial Chemicals) CWA (Chemical Warfare Agents) Hydrocarbons Fumigants														
Pellistor	All Flammable Gases & Vapours	% LEL													
Thermal Conductivity	Binary Gas Mixtures, Typically	% Vol													
	Hydrogen/Nitrogen Helium/Nitrogen Carbon Dioxide/Nitrogen														
	Others refer to IGD														