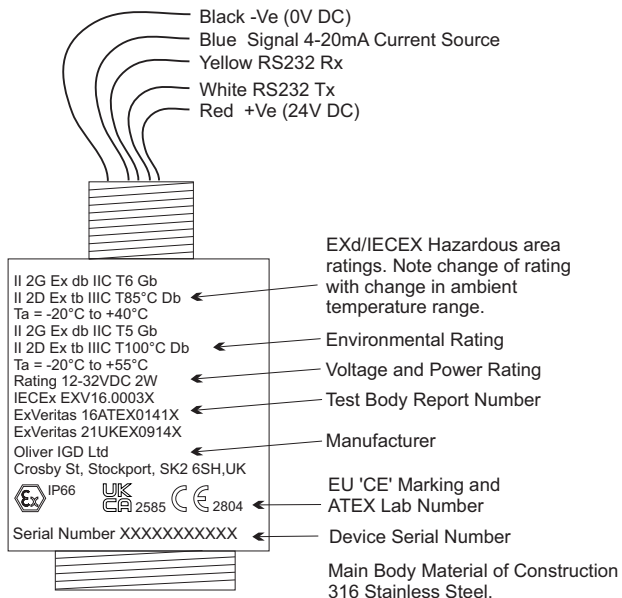
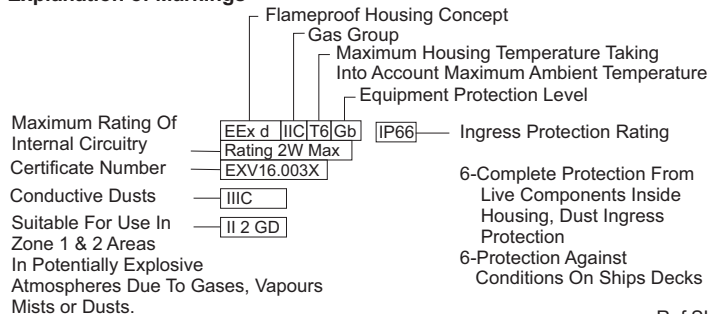


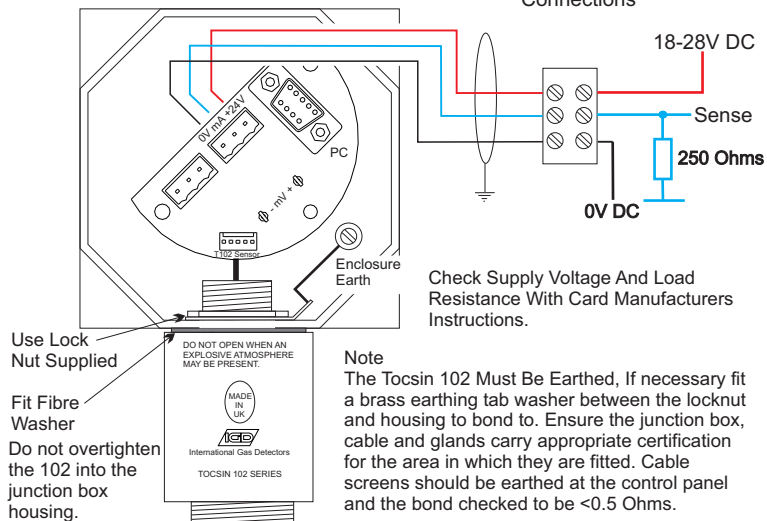
TOCSIN 102 4-20mA 2 Wire Gas Transmitter.



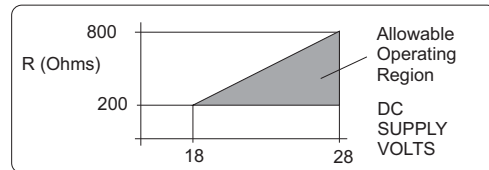
Explanation of Markings



Fitting, Service and Maintenance



Mounting Thread M20 x 1.5



Note a reading <2.5mA indicates the detector has a fault condition.

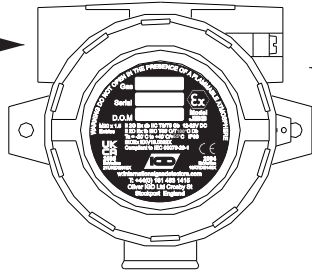
There are no user serviceable components inside the Tocsin 102.

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.



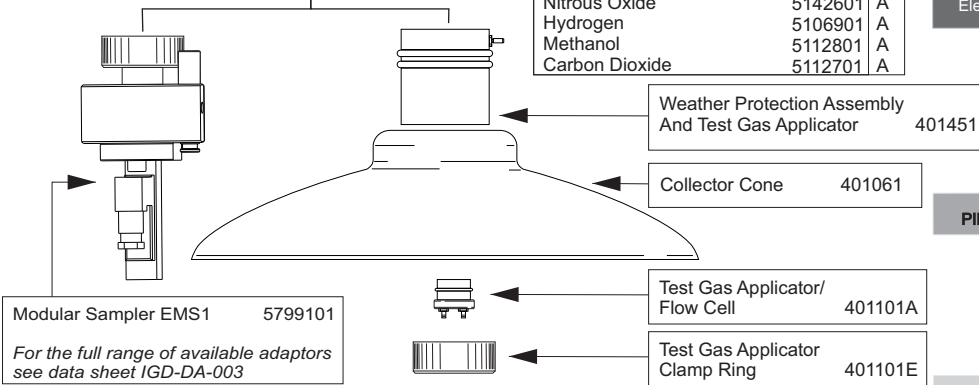
Standard Junction Box EEXd	5045801
Stainless Steel Junction Box EEXd	5045802
Polyester Junction Box EXE	5048503

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



Modular Sampler EMS1 5799101
For the full range of available adaptors see data sheet IGD-DA-003



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Website: www.internationalgasdetectors.co.uk

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

Ref SL-038 INFO215B 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="1"> <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="1"> <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				
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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														