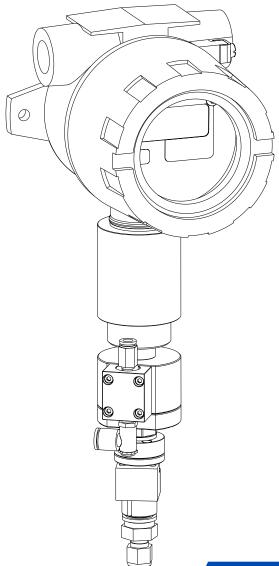
EMS SERIES SAMPLE MODULE USER INFORMATION



VERSION 2



Oliver IGD Limited

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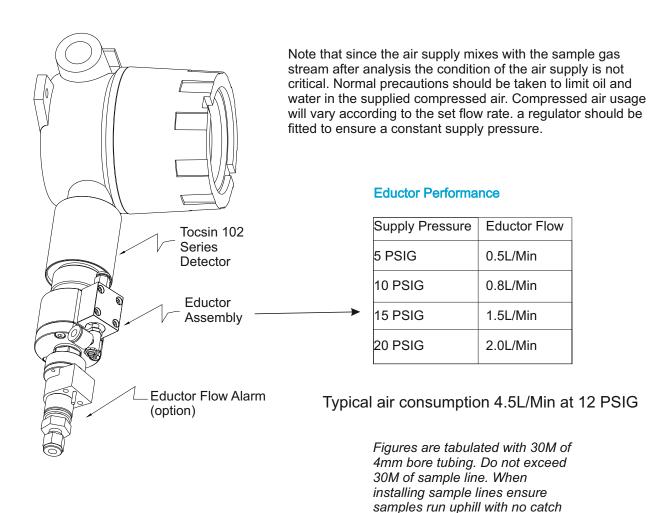
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Introduction

The Eductor Modular Sampler (EMS) can be added to any standard Tocsin 102 series gas detector. The basic EMS screws mounts to the detector using the accessory mounting thread. Compressed air is used to generate a flow using a patented venturi system. The induced flow does not impinge directly on the detector face but follows a path that ensures any particulate matter is directed away from the detector face allowing only the gas stream to be sampled. This ensures freedom from contamination, a long detector life and excellant response time to the gas flow. The ejected gas stream is diluted by the air supply making it safer to handle and if necessary can be tubed away. The unit has no moving parts this ensuring minumum maintenence and maximum reliability. As a further accessory a low flow detect alarm unit can be added as a further safeguard to both detect low flow from tube blockages or loss of flow due to failure of the air supply. Accessories are available for trace heating, sample cooling, probe ends etc

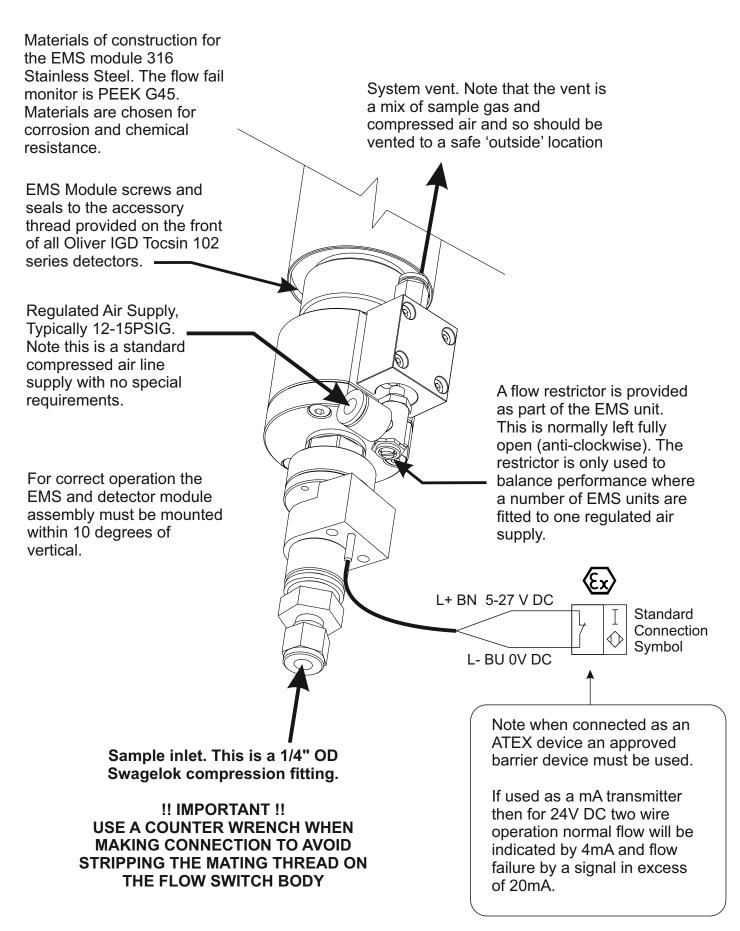
The unit is simple and efficient making minimum use of an air supply.



points where condensed vapour

could accumulate

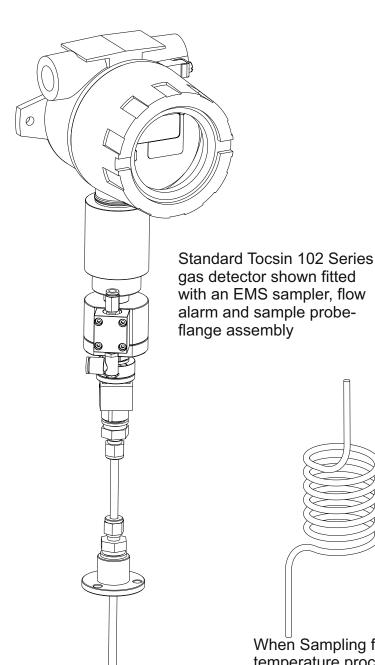
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Installations and accessories

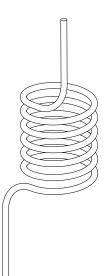
In Practice the Eductor Modular Sampler system provides a simple, robust and maintenance free solution to applications that require a sample to be extracted for gas detection. In practice the application of the device may require the use of additional accessories. Some of the available options are shown below.



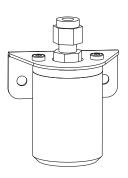
The Sample Flange -Probe Assembly PN 5923001 is typically used to sample from applications such as glove boxes, enclosures, dryers, Ovens etc

IMPORTANT

When making installations in potentially flammable atmospheres, detectors and junction boxes must fulfil requirements under ATEX and meet the required area classification. Refer to Oliver IGD Tocsin 102 series detector and JB3 Junction box manuals and literature for further details.



When Sampling from higher temperature processes the pre-cooler coil module can be fitted to protect the sampler from excessive temperatures, The unit can be used in conjunction with other accessories such as the same Flange Probe assy. Part Number 5078301



EOL Filer Module, Part Number 5923701. When sampling down long sample lines (up to 30M) the sample line itself may need protection from ingress of unwanted material. The End Of Line filter module can be used in such circumstances to provide both a defined sample/anchor point for the line end and filter the incoming sample.