

DATA SHEET

TOCSIN 601 SINGLE CHANNEL HAZARDOUS GAS MONITOR



Designed to provide a cost effective solution for gas monitoring applications requiring only a single point monitor the Tocsin 601 is the latest development from IGD to join the established Tocsin monitor range.

The Tocsin 601 uses the latest surface mount microprocessor technology for maximum reliability. The system boasts a range of interfaces to external data collection systems normally only associated with much larger installations.

The Tocsin 601 is designed to interface to the full range of IGD gas sensors giving maximum flexibility.

SPECIFICATION

Power Supply	24VDC, 12W 85V - 264VAC, 47-63Hz, 20W
Temperature	0 - 55°C
Humidity	5 - 95% RH Non Condensing
Accuracy	+/- 0.5% of FSD
Resolution	1% of FSD
Outputs	4-20mA (Max. 900) 1 - 5V, 1 - 10V Alarm 1, Alarm 2, Fault SPCO Relays 7A @ 240VAC Resistive Audible Alarm- 94db @ 100mm RS485 - Multidrop Addressable
Inputs	Pellistor, Toxic ^{#1} , 4-20mA ^{#1}
Display	3 digit RED LED, 14mm height
Response Time	T90 = 10s
Size	W=140 x L=140 x H=70mm
Weight	1.3 Kg

FEATURES

Software Controlled
Software upgradable via serial port^{#1}
Software fault detection and recovery
Digital transducer Filter (to remove noise)
Alarms Include spike / noise rejection algorithm
Under voltage detection and recovery
One Man Calibration
High reliability assembly and integration One PCB
Full Pellistor fault detection - Compensator/Detector short/open, Operating current^{#1}
Cell / Pellistor Expired indication
No Manual Potentiometers - All calibrations and set-up stored digitally
Set-up and Calibrations password protected
Programmable Pellistor operating current
Programmable transducer range
Diagnostic Information
Fully controllable via serial port - Gas values, Diagnostics, Calibrations, Set-up
Configurable alarms - Rising / Falling / Latching / Non-Latching
Simple one button operation

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

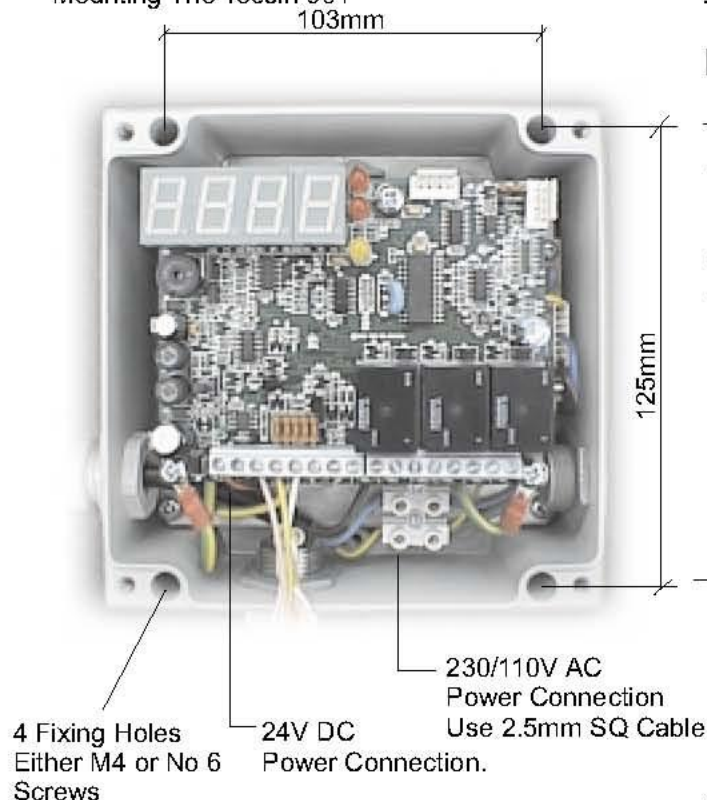
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Mounting The Tocsin 601



TOCSIN 601 INSTALLATION INSTRUCTIONS

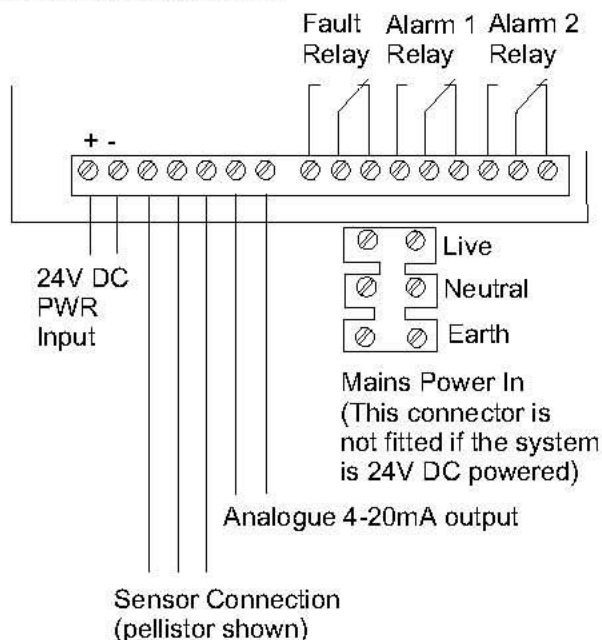
The following information is provided to enable safe installation and operation of the Tocsin 601 system.

This control unit can be fitted with either a three wire flammable gas sensor based on pellistor technology or two or three wire 4-20mA toxic gas sensors based on electrochemical technology.

It is vitally important for correct and safe operation that appropriate cable types and sizes are used and all earth bonding points observed. Failure to follow these instructions may result in a system which may be dangerous or fail to operate correctly.

Note that a 230/110V AC system is shown. The mains power supply is not fitted if a 24V DC system is supplied.

Terminal Rail Connections.



It is imperative to use cabling which suits the environment in which the T601 and its sensor is to be used. The following is intended as a guide.

Fit 1.5mm SQ cable and do not exceed 50M between the sensor and the T601.

Use

Pirelli LSX type cable for office/light commercial un-zoned installations

Steel Wire Armoured cable for medium/heavy industrial un-zoned installations

Mineral Insulated Pyro cable for all hazardous area zoned installations.

Note in all cases the T601 must be installed outside of any hazardous area and must be supplied via a fused spur.

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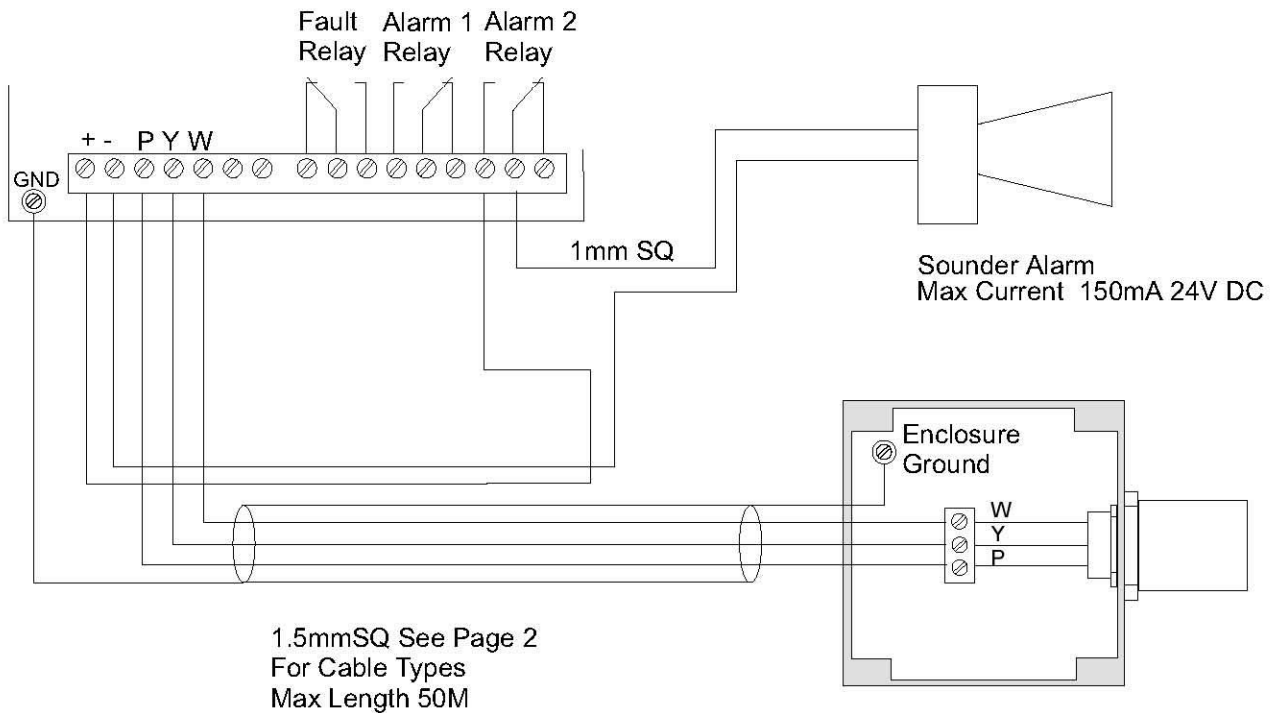
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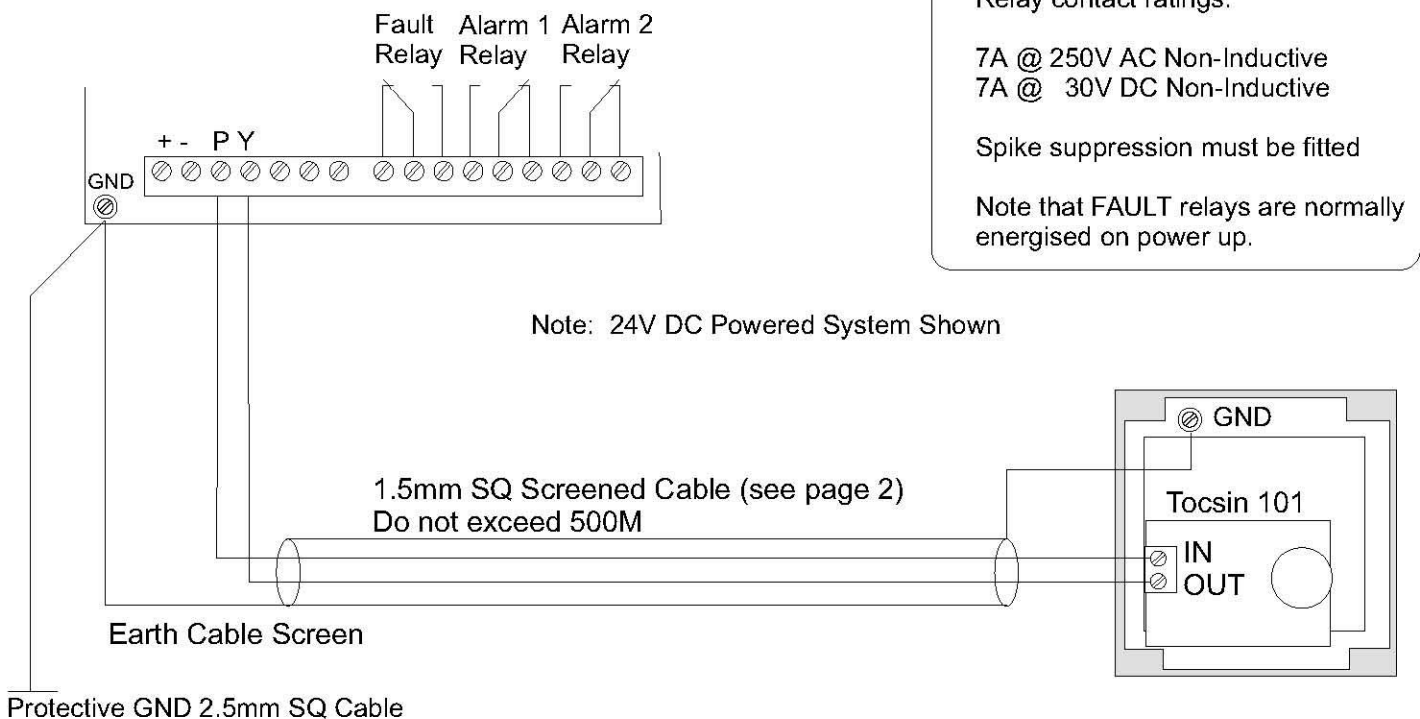
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Option 1 MK3 Pellistor Connected To 601 Series Controller



Option 2 Tocsin 101 Connected To 601 Series Controller



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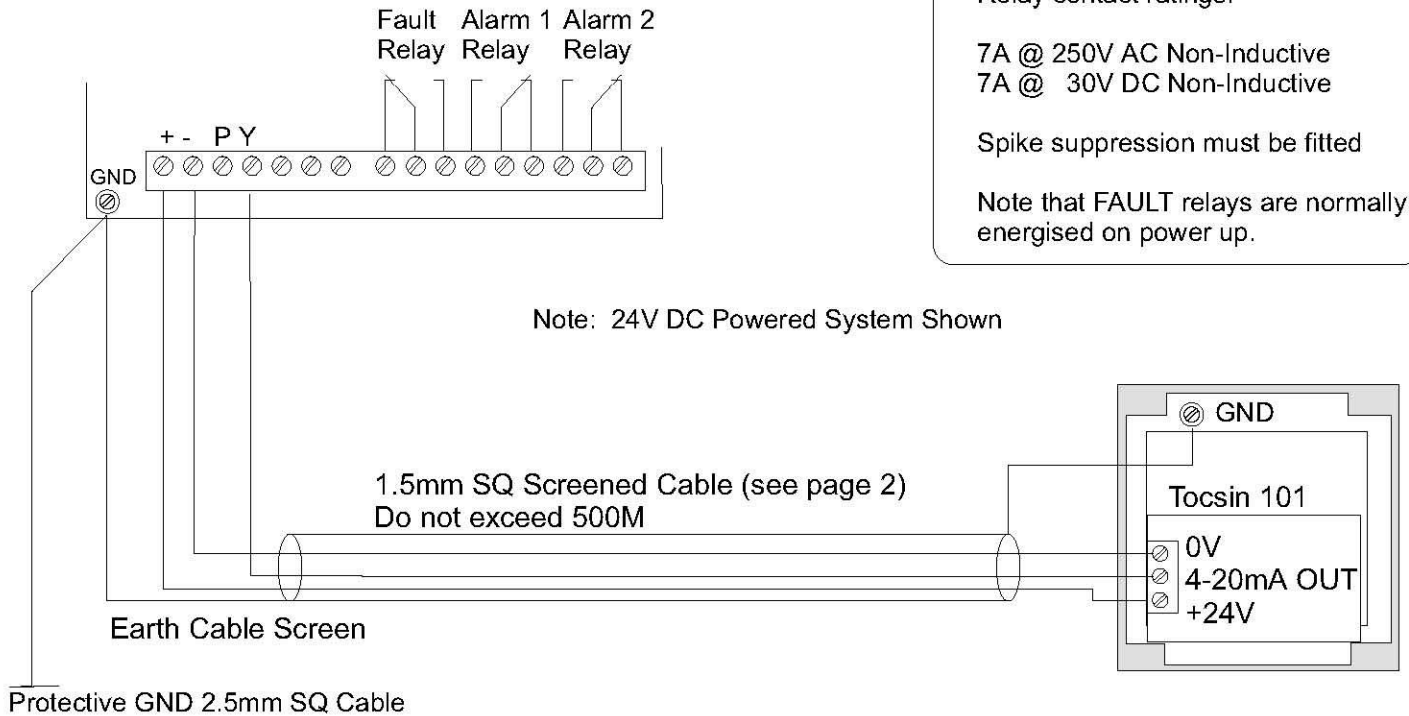
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Option 4 Tocsin 101 Freon Connected To 601 Series Controller



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