

PRODUCT DATA SHEET

www.internationalgasdetectors.com

OLIVER IGD

Control Systems

Transmitters

Sensors

Accessories



TOCSIN 920 SYSTEM UPGRADE

Use existing MK3 Pellistor Flammable Gas Sensors and upgrade to the latest 'state of the art' control system from IGD.

- » Re-use Existing Cabling
- » Re-use Existing Pellistors
- » Future Proof Upgrade Path
- » Reduce Required Rack Space
- » Improve Efficiency
- » Access Improved Operation
- » Input 4-20mA Sensors

Gain Access to :

Colour touch screen HMI with familiar bar graph and digital read out per channel.

Full Tag Line Information For Sensor Location & Details

Powerful Management Tools

- » One Man Calibration
- » Sensor Check Function
- » Event Logs
- » Access Control

Enhanced Diagnostics

Remote Access

Automatic Reporting Functions

Future Upgrade Path to Addressable Sensors

Easy Plant Additions Using New Addressable Sensors

Modbus Interface to Host Systems



IGD

International Gas Detectors

CH₄ H₂S CO₂
NO₂ NO₂ SO₂

OLIVER IGD

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England

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Email: sales@internationalgasdetectors.com

Website: www.internationalgasdetectors.com



FS646773
Ref: OIGD920-4

PRODUCT DATA SHEET

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OLIVER IGD

Control Systems

Transmitters

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EC Declaration of Conformity

Issuers name and address:

Oliver IGD Limited of
Triton House
Crosby St,
Stockport,
United Kingdom



Declares that the product listed as:

TOCSIN 920

Addressable Gas Detection Control Panel

Are in conformity with the provisions of the following European Directive(s) when installed, operated, serviced and maintained in accordance with the installation and operating instructions contained in the product documentation.

2004/108/EC **EMC Directive**
2006/95/EC **Low Voltage Equipment Directive** (note not applicable to 24V DC Powered Versions)

And that the standards and/or technical specifications referenced below have been applied or considered.

EN 61779-1:2000	Electrical apparatus for the detection and measurement of flammable gases, general requirements and test methods.
EN 50271:2010	Electrical apparatus for the detection and measurement of combustible gases, toxic gases or Oxygen: requirements and tests for apparatus using software and or digital technologies. <i>Excluding requirements for SIL</i>
EN 61000-6-2: 2005	EMC Generic standards. Immunity for industrial environments
EN 61000-6-4/A1: 2011	EMC Generic standards. Emission standard for industrial environments
EN 61000-3-2: 2014	EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)
EN 61000-3-3: 2013	EMC Limits. Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase

Technical File Reference T920-TF9

Product Markings **CE** **TOCSIN-920** *SI*-serial number

Oliver IGD Limited Operate and Independently assessed ATEX/IECEX QAN.

Oliver IGD Limited operate an independently assessed ISO9001:2008 Quality Management System.

Testing Agency:

TUV - SUD
Octagon House
Concorde Way
PO 15 5RL
Fareham

Quality Assurance Certificate Number
ExVeritas 16PQAN0014

Quality Management Certificate Number
FS 646773

Quality Assurance Notification Number:
2585

ExVeritas,
Units 16-18,
Abenbury Way,
Wrexham Industrial Estate,
Wrexham, UK, LL13 9UZ

BSI Assurance UK LTD,
Chiswick High Road,
London
W4 4AL
UK



Mehr Sicherheit.
Mehr Wert.

TUV Certificates and reports can be checked on-line at https://www.tuev-sued.de/industry_and_consumer_products/certificates

Issued on: 20th Feb 2016

At Oliver IGD Limited, Stockport, SK2 6TS , United Kingdom

Signature:

Declaration of Conformity in accordance with EN ISO/IEC 17050-1:2010

Name

Andrew J Collier M.I.O.D

Position:

Managing Director

Date: 20th Feb 2016

Declaration Ref: T920-DEC-6



International Gas Detectors

CH₄ H₂S CO₂
NO₂ SO₂ NO₂ CO



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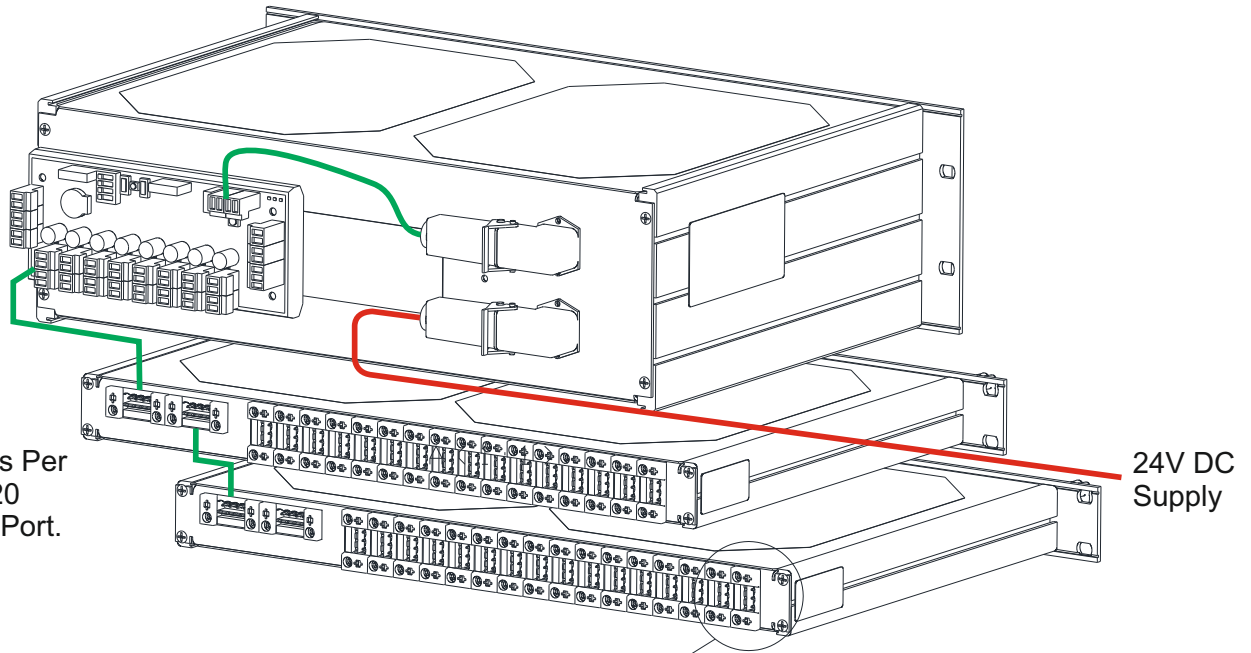
Website: www.internationalgasdetectors.com



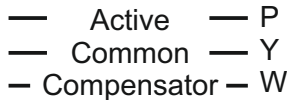
FS646773
Ref: OIGD920-4

TOCSIN 920

Detector Control Upgrade System for Existing Users



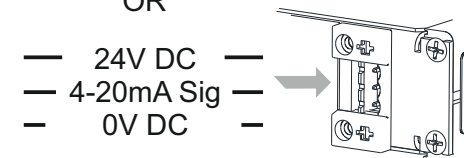
PN 5920261
16 Pellistor
Flammable
Gas Detection
Channels Per
Rack Tray



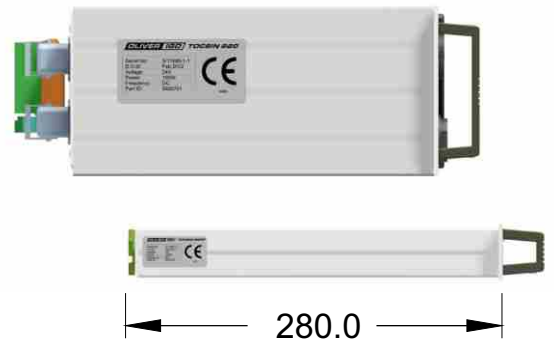
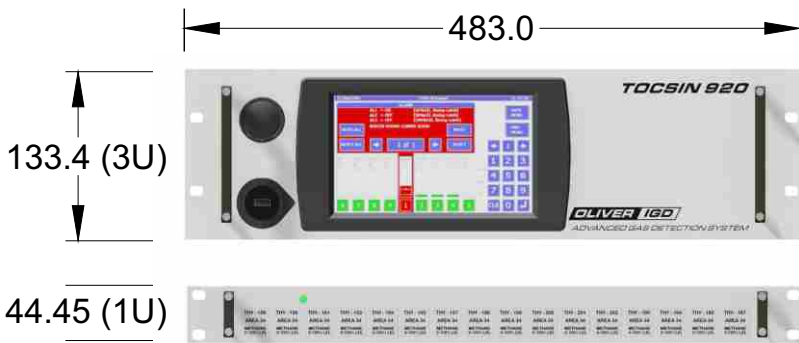
Interfaces to Existing mV
IGD Mk3 Pellistors Using
Existing Wiring



PN 5920280
16 4-20mA
Gas Detection
Channels Per
Rack Tray



19" Rack Mount Controller



Tocsin 920 Rack mount Units Are Standard 19" Rack Modules 3U High (133.35mm)

All electrical Terminations are to the Rear of the Rack



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TOCSIN 920

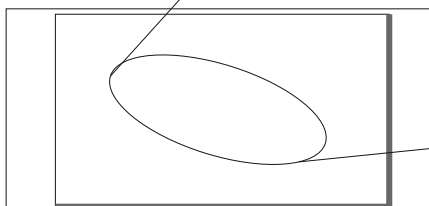
Detector Control Upgrade System for Existing Users

Typical system Block Diagram

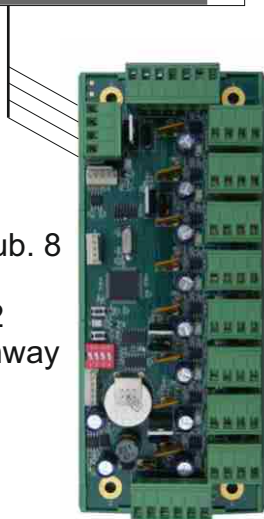
Base Systems Comprise:

- Touch Screen HMI Panel
- 150W PSU
- One Data Highway Hub
- One Addressable Relay Output Card.

Typical Screen Shot, Tocsin 920 Series HMI Display. Touch Screen 260,000 Colours, 800 x 480, 7" Display.



Tocsin 920 Series Control Panel



Data Highway Hub. 8 Highway Ports Serving Up To 32 Devices per Highway

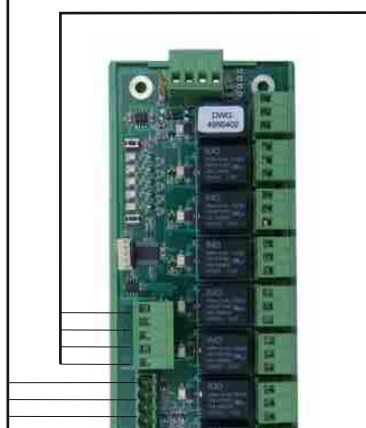


4 Core Cable Highway

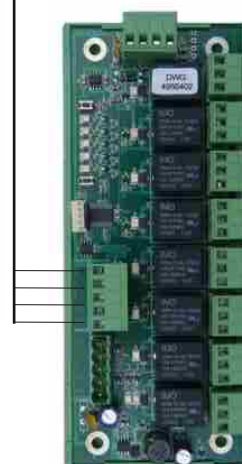


Pellistor (Catalytic) Detector Input Trays 16 Pellistors per Tray and up to 2 Trays Per Highway. Trays are 19" 1U Rack Mount

8 Port Hubs and Relay Cards can be chassis or DIN Rail Mounting for inclusion into OEM cabinets. All Devices are 24V DC Powered. Field boxes are available for in field installation of Hubs and relay cards if required.



8 Output Addressable Relay Card



8 Output Addressable Relay Card



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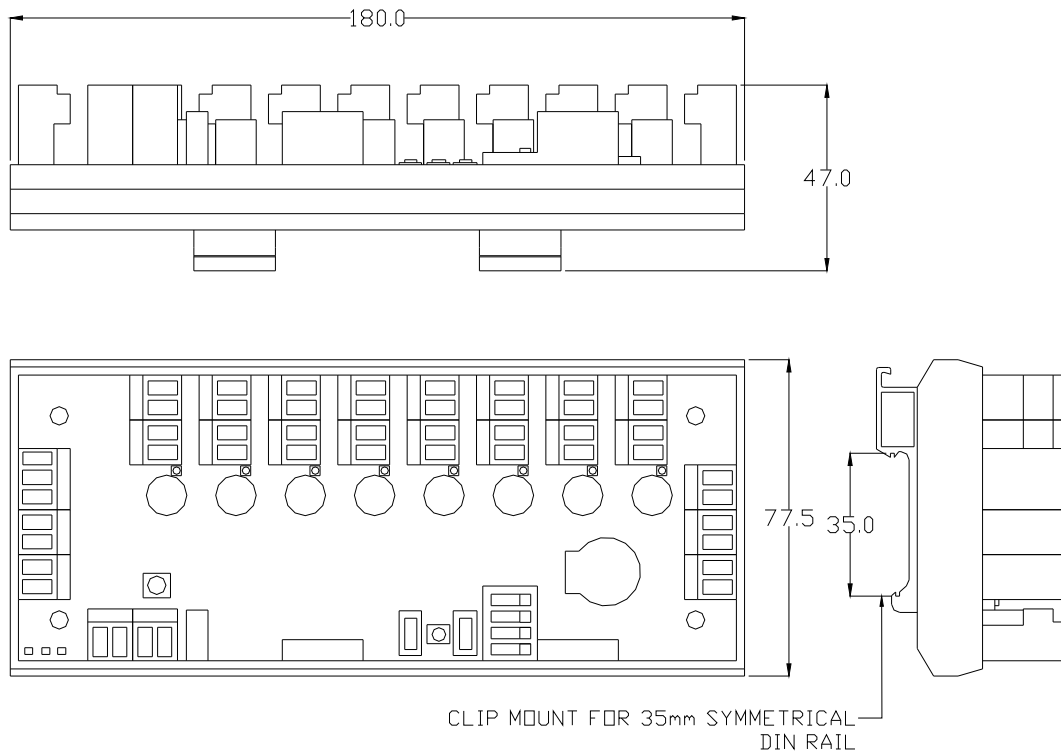


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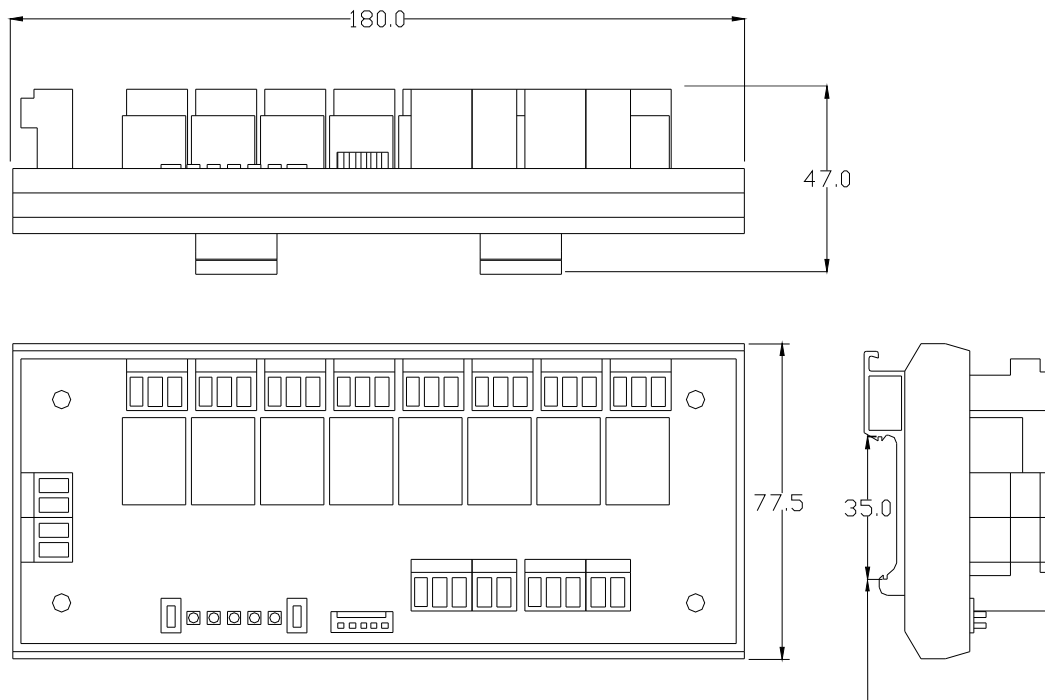
TOCSIN 920

Detector Control Upgrade
System for Existing Users

DIN Rail Mounted Highway Hub Dimensions



DIN Rail Mounted Relay Card Dimensions



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CH₄ H₂S CO₂
NO NO₂ SO₂



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TOCSIN 920

Detector Control Upgrade System for Existing Users

Specification

Power Source	24V DC
Power Consumption	200 Watts Base Unit (system dependant)
Display	Colour HMI 800x480
Operating Temperature	0°C to 55°C
Operating Humidity	5 to 95% non-condensing
Accuracy	Sensor dependant
Resolution	0.00% 0.00ppm Dependant on Sensor Type
Update Rate	1 Second
Controller Size (mm)	3U High Rack 280mm Deep
Pellistor I/F Tray	1U High Rack 280mm Deep
Inputs	Up to 8 x RS485 loops (Expandable Using Additional Hubs)
Outputs (Standard)	8 x configurable SPCO relays (7A non conductive load Expandable using Additional relay Cards)
.	1 x RS232/485 Comms Link (Modbus/Bacnet)

CE Declaration	BS EN 61000-6-4 EMC Compatibility 'Emissions' for industrial environments BS EN 61000-6-2:2001 EMC 'Immunity' for industrial environments BS EN 61010-1: 2001 Safety requirements for electrical equipment
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Order Codes

5920201	Tocsin 920 19" Rack Mount Base Unit 3U High 24V DC
5920261	Tocsin 920 Pellistor I/F Tray 1U High
5920280	Tocsin 920 4-20mA I/F Tray 1U High
5920301	Modbus Option
5920401	Bacnet Option (TBA)
5920501	Addressable Relay Card 8 SPCO Relays For Use in Base Units
5920601	Addressable RS485 Hub 8 RS485 Ports For Use in Base Units
5920701	Addressable Relay Card 8 SPCO Relays DIN Rail Mounting
5920801	Addressable RS485 Hub 8 RS485 Ports DIN Rail Mounting
5920901	Field Box. Field wall mounting enclosure to accommodate two cards, as either relays or hubs
5921001	Battery Backup Module
5921101	DIN Rail Mount 24V DC PSU Module 110/230V AC 50/60Hz