

Control Systems

Transmitters

Sensors

Accessories



microprocessor technology and software TOC-20 is a reliable long term monitoring solution. TOC-20 is supplied pre-calibrated ready to use.

Standard Specifications

Power 18-28V DC (230V AC Adaptor Supplied)

Construction ABS

Outputs 3 off 4-20mA or 0-10V Linear Outputs for Refrigerant,

Modbus RTU Interface

2 off SPCO Relays Rated 4A Non Inductive

85dB Alarm Sounder

Operating

Environment -5 to 55 Deg C

Sealing 5-95% RH Non-Condensing

IP64 (Excluding Sensor)

Measuring Ranges Refrigerants Typically 0-1000ppm,

Resolution 10ppm, Accuracy +/-5% of Range

Package Size 180mm X 100mm X 75mm (See Dimension Drawing)

Weight 375g

Features

Multi-Colour RGB LCD Display Backlight Industry Standard 4-20mA/0-10V Outputs

Two Alarm Relay Outputs

Modbus Interface

User Configurable Alarms

Wall Mount

Supplied Pre-calibrated

In-Service Calibration Possible

Sensors are Dust & Splash Resistant

Case Sealed to IP64

TOC-20 is commonly deployed into:

Refrigeration Plant Rooms Cold Storage Depots Supermarket Cold Storage

Air Conditioning





Triton House Crosby Street Stockport SK2 6SH England









Sensors

Testing Agency:

Octagon House

Concorde Way PO 15 5RL

TUV - SUD

Fareham

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:

4-20mA or Addressable Output Gas Detector with display

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.

Electrical apparatus for the detection and measurement of combustible gases, toxic gases or EN 50271:2010

Oxygen: requirements and tests for apparatus using software and or digital technologies.

Excluding requirements for SIL

EN 61000-6-2: 2005 EMC Generic standards. Immunity for industrial environments

EN 61000-6-4: 2007 EMC Generic standards. Emission standard for industrial environments

EN 61000-3-2/A2:2009 EMC Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) EN 61000-3-3: 2008 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

Oliver IGD Limited operate an independently

assessed ISO9001:2008 Quality Management

System.

Quality Management Certificate Number

FS 646773

Technical File Reference

T20-TF9

Product Markings

ExVeritas. Units 16-18,

Name



TOC-20

S/-serial number

Oliver IGD Limited Operate and

Independently assessed ATEX/IECEX QAN.

Quality Assurance Certificate Number

ExVeritas 16PQAN0014

Quality Assurance Notification Number:

2585

BSI Assurance UK LTD, Chiswick High Road,

Abenbury Way, Wrexham Industrial Estate, London Wrexham, UK, LL13 9UZ W4 4AL

UK

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

At Oliver IGD Limited, Stockport, SK2 6SH, United Kingdom Issued on: June2016

Signature:

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

Andrew J Collier M.I.O.D

Managing Director Position: June 2016 Declaration Ref: TOC-20DEC-3





Triton House Crosby Street Stockport SK2 6SH England

Tel: +44 (0)161 483 1415 Fax: +44 (0) 161 484 2345 Email: sales@internationalgasdetectors.com Website: www.internationalgasdetectors.com





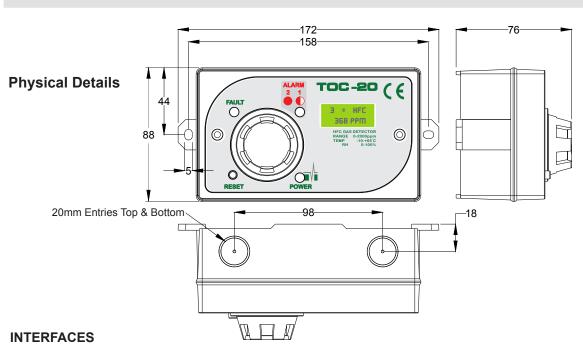
Mehr Sicherheit Mehr Wert.

FS646773 REF: T20R-V6

DOUCT DATA SHEET

www.internationalgasdetectors.com

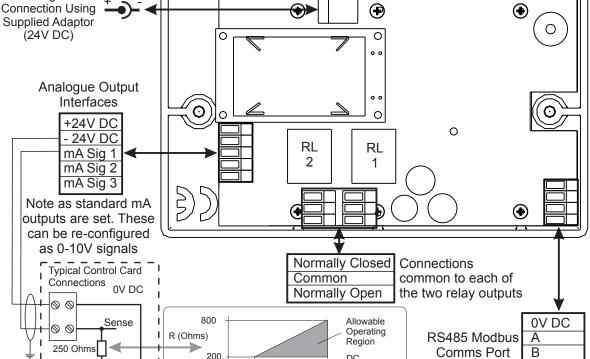
Sensors

















0V DC

Jack Plug Power

OLIVER IGD

28

SUPPLY

VOLTS

Triton House Crosby Street Stockport SK2 6SH England

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Tel: +44 (0)161 483 1415 Fax: +44 (0) 161 484 2345 Email: sales@internationalgasdetectors.com Website: www.internationalgasdetectors.com

24V DC







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To comply with the requirements of EN378 and the F GAS regulation sensors must be tested annually.

Local regulations may specify the nature and frequency of this test. If not contact IGD for details

After exposure to a substantial gas leak, sensor should be checked and replaced if necessary.



Summary of Refrigerants and Suitable Gas Detector Models

Refrigerant	Group/Name	Heavier or Lighter Than Air	Gas Detector Model
R 717 R 290 R 600 R 22 R 401A R 401B R 408A R 409A R 134A R 404A R 416A R 507 R 410A R 411A	Ammonia NH3 Propane C3H8 Propane C3H8 HCFC HCFC HCFC HCFC HCFC HFC HFC HFC HF	Lighter Heavier Heavier Heavier Heavier Heavier Heavier Heavier Heavier Heavier = Heavier	TOC-30-NH3 or TOC-30A-NH3 TOC-31A-PHC TOC-31A-PHC T20-HCFC-2000 T20-HCFC-2000 T20-HCFC-2000 T20-HCFC-2000 T20-HCFC-2000 T20-HFC-2000 T20-HFC-2000 T20-HFC-2000 T20-HFC-2000 T20-HFC-2000 T20-HFC-2000 T20-HFC-2000 T20-HFC-2000

ATEX Version Gas Detectors, Gas Sampling Units, System Controllers and Bespoke Solutions Are Available. See our Website at www.internationalgasdetectors.com for more details or call for advice.







