Tocsin-20

PRODUCT DATASHEET





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 Environmen

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



PRODUCT DATASHEET



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.

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.

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

Technical File Reference

T20-TF9

Product Markings

ExVeritas. Units 16-18.



TOC-20

S/-serial number

Oliver IGD Limited Operate and

Independently assessed ATEX/IECEX QAN. **Quality Assurance Certificate Number**

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

Quality Management Certificate Number

FS 646773

Testing Agency:

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

Mehr Sicherheit Mehr Wert.

ExVeritas 16PQAN0014

Quality Assurance Notification Number: 2585

> BSI Assurance UK LTD, Chiswick High Road,

Abenbury Way, Wrexham Industrial Estate, London Wrexham, UK, LL13 9UZ UK

W4 4AL

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

Issued on: June2016 At Oliver IGD Limited, Stockport, SK2 6SH, 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: June 2016 Declaration Ref: TOC-20DFC-3



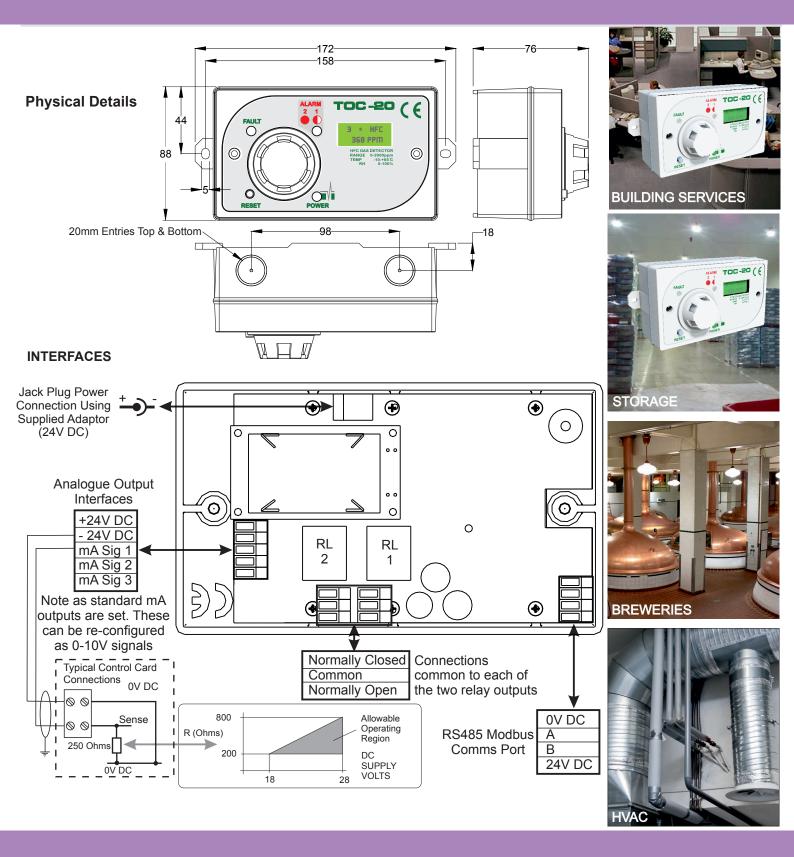
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Notes

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	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.

