



GROVELEY DETECTION

Groveley Detection Limited

Anchor Works, Groveley Road

Christchurch, Dorset

BH23 3HB

UK

T: +44 (0)1202 483497

F: +44 (0)1202 486658

E: sales@groveley.co.uk

Toxic Gas Detector DMI-TT6

The Simtronics DMI-TT6 range of detectors are designed to monitor oxygen or toxic gases.

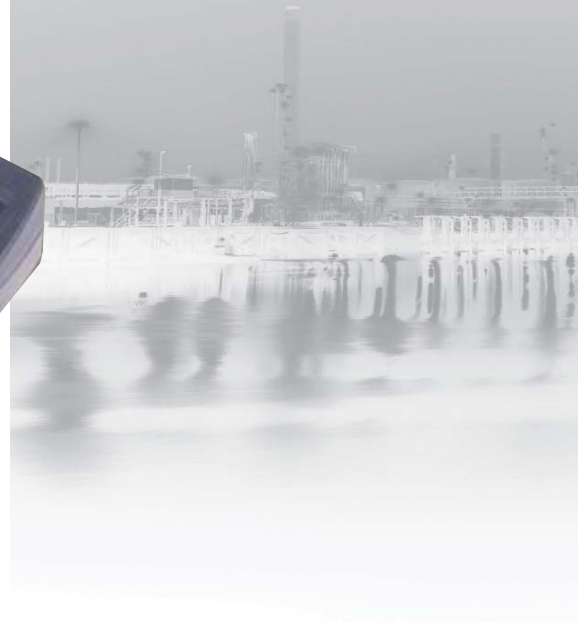
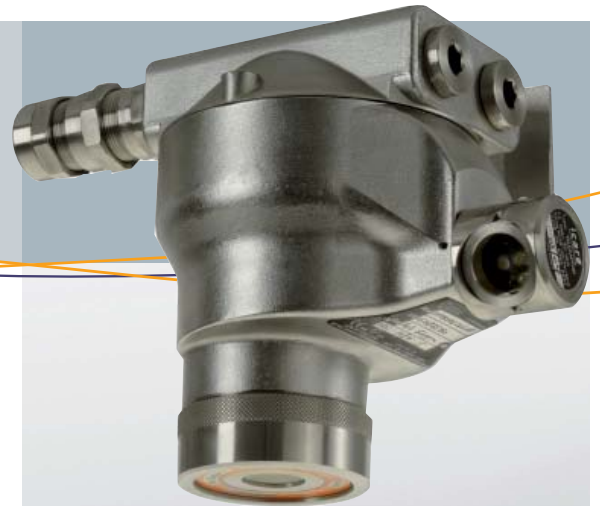
A variety of electro-chemical sensor cartridges can be fitted to detect a wide range of toxic gases.

The cells are intrinsically safe and may be replaced with the detector in use. The device offers a wide range of output options as standard and is suitable for use in SIL2 applications. The unit may be interfaced directly with a wide range of panels, controllers and PLC's etc.

The intelligent, microprocessor driven unit is fully configurable using a wireless handheld terminal (TLU) giving true flexibility to the installer. Elements such as relay operation and alarm levels are all set via the TLU, hazardous area approved handheld unit.

TLU Remote Control

- Maintenance and configuration in one single step - by a single operator
- Safe and easy to use
- Read-outs of gas concentrations, settings and alarms
- Inhibition remote control
- Compatible with all remote detectors
- Certified intrinsically safe for use in restricted areas



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buying quality...*

Toxic Gas Detector DMI-TT6

TECHNICAL DETAILS

General

- Detection method: Electrochemical cell
- Gases detected: O₂, NH₃, CO, NO, NO₂, H₂, SO₂, Cl₂, HCl, HCN - Other options available on request
- Transmitter warranty: 2 years

Output Signals

- Standard
4-20 mA source, maximum load impedance 700 Ω
- Relay Output
2 configurable. Rated max 1A / 30V DC
- Options
0-22mA (for PLC) or Lonworks (for Syntel system)

Electrical

- Power supply: 24V DC, range (18 - 32V DC)
- Consumption
30 mA normal; 180 mA when heating
- Connections
0.3 mm² (22 AWG) - 1.5 mm² (12 AWG)
Shielded cable recommended

Environmental

- Storage temperature -40°C to + 70°C
- Operational temp. See gas table below
- Humidity (operation) 15-99% RH (non-condensing)

Certification

- LCIE 03 ATEX 6262X / CE0081  II 2 G/EEEx d ia II C T6

Reliability Data

- Toxic gases
MTBF: 67500 h
- Oxygen
MTBF: 69500 h

Housing

- Material Epoxy coated aluminium
- Option 316 L stainless steel
- Protection IP66
- Weight 1.8kg aluminium housing
6.5 kg stainless steel
- Dimensions 175L x 118W x 184H mm

Accessories

- TLU600 Infrared remote control unit
- Calibration kit
- Calibration cup
- Sample flow housing
- Splash guard
- Sun shade
- LCD display

GAS	O ₂	H ₂ S	NH ₃	CO	NO	NO ₂	H ₂	SO ₂	Cl ₂	HCl	HCN
Range (ppm) (except O ₂ % Vol)	0-5 0-25 0-100	0-20 0-50 0-100 0-200	0-50 0-100 0-1000	0-100 0-200 0-500 0-1000	0-100	0-20	0-1000 0-2000 0-10000*	0-20 0-100	0-10 0-20 0-50	0-50 0-100	0-50
Zero drift in % scale	< 0.1	< 1	< 3	< 2	< 3	< 0.5	< 1.5	< 1	< 0.5	< 3	< 1
T90 (seconds)	< 20	< 45	< 120	< 35	< 20	< 45	< 50 * < 70	< 30	< 30	< 160	< 40
Cell lifetime (months)	12 to 18	24	18	18	36	24	24	24	24	24	18
Temperature °C	-10/+40	-20 / +50	-20 / +40	-20 / + 50	-20 / +50	-20 / +50	-20 / +50	-20 / +50	-20 / +40	-20 / +50	-20 / +40

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