

THE FINNISH SOLUTION FOR YOUR GAS DETECTION

Target Gases

- Ammonia
- Car Exhaust
- Refrigerants



Other Gases, ask **Detector Oy**

Benefits

- Quality assured manufacturing, Eurofins ISO 9001 and ISO 14001
- Industrial standard output signal
- Easy mounting due to the isolating/mounting plate
- Stylish and robust enclosure, impact resistant cast-aluminium
- Non-intrusive calibration
- Easy to replace an outworn sensor by using an interchange package
- DGTt2r and **DGTt2r-ex** types functions as independent gas detection units, equipped with a relay, buzzer and acknowledgement button



DGTt2-ex belongs to Equipment Group II and Equipment Category 3. The detector can be installed in Zone 2 areas.

Applications

- Indoor Car Parks
- Freezer Compartments
- Cold Stores
- Ships
- Food industry



Accessories



Duct Assembly Kit



SS Protection Enclosure



Pipe Mounting Kit



Test Gas Kit



'Stand alone'-type



Principle and gases

Sensor Type: semi-conductor

Gas	Measurement Range	Resolution from Reading	Sensor Replacem. Frequency	Operating Temp. Range	T90 Response Time
Ammonia: NH3	10...500ppm	±20%	3 – 5 v	-30°C .. +40°C	<10s
Car Exhaust: HC/CH	10...300ppm	±20%	3 – 5 v	-20°C .. +40°C*	<10s
Refrigerants**: R134a ...	10...1000ppm	±20%	3 – 5 v	-20°C .. +40°C*	<10s

Other Target Gases: ask **Detector Oy**

* -30°C with reduced sensitivity

** Refrigerants such as R123, R21, R22, R401A, R402A, R403B), R125, R134a, R245fa, R404A, R407C, R410A, R507, R1234ZE, R450A...

Calibration: The detectors are delivered factory calibrated to the measuring range. After installation it is recommended to calibrate the detector at least once per year. It is also recommended to do functional tests to the detector 4-6 times a year.

Environmental

Operating Humidity: non-condensing 15...90%RH
Operating Air Pressure: normal air pressure ±10%

Electrical

Output signal: (0)4...20 mA or (0)2...10 V + signal light indicating the measuring/sensor fault/gas alarm + a relay output 24V/1A in the DGTt2r and **DGTt2r-ex**-models
Operating Voltage: regulated 24VDC/VAC ±20% (DGTt2-ex only 24 VDC version)
Cable Requirements: Safe zone: 3-wire connection, suggested type JAMAK 2x(2+1)x0,5mm² or equal
Ex zone: cable must be in accordance with 60079-14 standard
Power Consumption: 4W (max)

Enclosure

Installation Possibilities: wall, ceiling, duct and pipe assembly
Material: cast aluminium silicate
Surface Treatment: epoxy painted beige/grey tone RAL7032
Ingress Protection Code: IP54
Dimensions: 89mm x 89mm x 69mm
Weight: 620g
Mounting: isolating/mounting plate with 2-4 screws and/or enclosure with 2 screws
Cable Penetration: STR16, for cables with diameters 6 - 12mm, body polyamide, gasket CR

Approvals

Ex-Marking:  II 3G Ex ec IIC T4 Gc