

DGTeex Gas Detectors



Applications

THE FINNISH SOLUTION FOR YOUR GAS DETECTION

Target Gases

- Ammonia
- Oxygen
- Carbon Monoxide
- Hydrogen Sulphide
- Hydrogen
- Other Gases, ask Detector Oy



Benefits

- Quality assured manufacturing, Eurofins ISO 9001 and ISO 14001
- Many different gases can be measured with different sensors
- Target gas specific sensors
- Industrial standard output signal
- Stylish and robust enclosure, impact resistant cast-aluminium or stainless steel (option)
- Non-intrusive calibration



DGTeex belongs to equipment group II and to equipment category 2G (Gas) The detector can be installed in to zones 1 and 2. (II 2G Ex db IIC T6 Gb)

With a separately installed filter DGTeex can be installed in to zones 1,2 and 21,22. (II 2G Ex db IIC T6 Gb, II 2D Ex tb IIIC T85°C Db)



Accessories



SS Rain Cover Ceiling Mounting Kit



SS Protection Enclosure Pipe Mounting Kit



Test Gas Kit







Food Industry Water Treatment Plants Chemical Industry Engine Rooms Laboratories Process Industry

- Wood Pellet and Coal Stores Pharmaceutical Industry
- Hospitals
- **Oil Refineries**

Principle and Gases

Sensor Type: electrochemical

ask Detector Oy

	Gas	Measurement Range	Typical sensor replace frequency	Operating Temperature Range (temp in brackets for Zone 21 and 22 detectors)	T90 Response Time
Ammonia:	NH ₃	0200 ppm	24 months	-30°C +40°C	<65s
Ammonia:	NH₃	01000 ppm	24 months	-30°C +40°C	<95s
Oxygen:	O ₂	025 %	24 months	-20°C +55°C	<20s
Carbon Monoxide:	СО	01000 ppm	24 months	-30°C (-20°C) +50°C	<30s
Hydrogen Sulphide:	H ₂ S	050 ppm	24 months	-30°C (-20°C) +50°C	<45s
Hydrogen:	H ₂	010000ppm	24 months	-20°C +50°C	<115s

Other Target Gases:

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. According to the ATEX directive only **Detector Oy** and personnel authorized by Detector Oy can carry out the calibration and maintenance work.

Environmental

Operating Humidity: Operating Air Pressure: 15...90 % RH, non-condensing (momentary 0...99 % RH for Oxygen) normal air pressure ±10 %

Electrical

Output Signal: Operating Voltage: Cable Requirements: 4...20 mA linear response 24 VDC ±20 %, regulated Safe zone: 3-wire connection, JAMAK 2x(2+1)x0,5 mm² or equal Ex zone: cable must be in accordance with 60079-14 standard 3 W (max)

Power Consumption:

Enclosure

Installation Possibilities: Material: Surface Treatment: Ingress Protection Code: Dimensions: Weight: Cable Penetration: wall, ceiling and pipe assembly aluminium (standard) or AISI 316L (special enclosure) epoxy paint IP66 DGTkex 185 mm x 129 mm (height x depth) 1.8 kg body: nickel-plated brass (standard) or AISI 316L (for AISI 316L enclosure) gasket: CMP SOLO LSF thermoplastic elastomer

Certificate

EC-TYPE EXAMINATION CERTIFICATE:

Equipment or Protective Systems Intended for use in Potentially explosives atmospheres Directive 2014/34/EU VTT 09 ATEX 063X (Notified Body Number 0537) **DGTeex Detector Oy**

Ex markings:

Reference:

Equipment:

Manufactured by:



II 2 G Ex d IIC T6 II 2 D Ex tD A21 T85°C IP65



www.detector.fi