



Applications

Food Industry Water Treatment Plants Chemical Industry Engine Rooms Laboratories Process Industry Wood Pellet and Coal Stores Pharmaceutical Industry Hospitals Oil Refineries

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, VTT (Technical Research Centre of Finland) ISO 9001
- 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



ISO 9001:2008

DGTeex belongs to Equipment Group II and to Equipment Category 2 G (Gas) and D (Dust). The detector can be installed in Zone 1, 21, 2, and 22.

Areas with right - sign

Accessories



SS Rain Cover Ceiling Mounting Kit



SS Protection Enclosure Pipe Mounting Kit



Test Gas Kit



CE



Detector Oy reserves the right to make any changes, without notice, to the technical characteristics of it's equipment

Principle and Gases

Sensor Type: electrochemical

	Gas	Measurement Range	Typical sensor replace frequency	Operating Temperature Range*	T90 Response Time
Ammonia: Ammonia: Oxygen: Carbon Monoxide: Hydrogen Sulphide: Hydrogen:	NH ₃	0200 ppm	24kk	-30°C +50°C	<90s
	NH₃	01000 ppm	24kk	-30°C +50°C	<120s
	O ₂	025 %	24kk	-30°C +55°C	<15s
	CO	01000 ppm	24kk	-30°C +50°C	<15s
	H₂S	050 ppm	24kk	-30°C +50°C	<15s
	H ₂	010000ppm	24kk	-20°C +50°C	<15s

Other Target Gases:

ask Detector Oy

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 Temperature Range:

Operating Humidity: Operating Air Pressure: ATEX limitations in Zone 1 and 2: -40°C ... +80°C -20°C ... +80°C ATEX limitations in Zone 21 and 22: non-condensing 15...90%RH (momentary 0...99%RH for Oxygen) normal air pressure ±10%

Electrical

Output Signal: Operating Voltage: Cable Requirements: Power Consumption: 4-20mA linear response 24VDC ±20%, regulated four-wire connection, suggested type JAMAK 2x(2+1)x0,5mm² or equal 3W (max)

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 IP65 110mm x 127mm (diameter x depth) 1,66kg body: nickel-plated brass (standard) or AISI 316L (for AISI 316L enclosure) gasket: CMP SOLO LSF thermoplastic elastomer

Certificate

FC-TYPE EXAMINATION CERTIFICATE:

Reference: Equipment: Manufactured by: Compliance: Equipment or Protective Systems Intended for use in Potentially explosives atmospheres Directive 94/9/EC

VTT 09 ATEX 063X (Notified Body Number 0537)

DGTeex

Detector Oy

Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0 (2004), EN 60079-1 (2004)

Ex markings:

II 2 D Ex tD A21 T85°C IP65

II 2 G Ex d IIC T6



www.detector.fi

Jälleenmyyjä: