

THE FINNISH SOLUTION FOR YOUR GAS DETECTION



Target Gases

- Ammonia
- Oxygen
- Carbon Monoxide
- Chlorine
- Ozone
- Sulphur Dioxide
- Hydrogen Sulphide
- Hydrogen Chloride
- Nitrogen Dioxide
- Nitric Oxide
- Hydrogen
- Other Gases, ask **Detector Oy**



DGTec2
DGTec2-ex



DGTec-ex

Applications

- Process Industry
- Food Industry
- Pharmaceutical Industry
- Hospitals
- Laboratories
- Compressor Rooms
- Water Treatment Plants

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
- Easy mounting due to the isolating/mounting plate
- Stylish and robust enclosure, impact resistant cast-aluminium
- Non-intrusive calibration



The Ex version DGTec2-ex can be installed in Zone 2 areas. The Ex version **DGTec-ex** belongs to Equipment Group II and Equipment Category 1. The detector can be installed in Zone 0, 1 and 2 energized through a galvanic isolator.



Accessories



Duct Assembly Kit



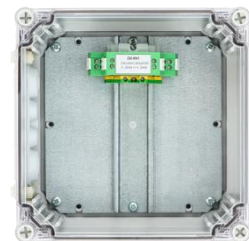
SS Protection Enclosure



Pipe Mounting Kit



Test Gas Kit



Galvanic Isolator



Principle and Gases

Sensor Type: electrochemical

Ammonia:
Ammonia:
Oxygen:
Carbon Monoxide:
Chlorine:
Ozone:
Sulphur Dioxide:
Hydrogen Sulphide:
Hydrogen Chloride:
Nitrogen Dioxide:
Nitric Oxide:
Hydrogen:
Hydrogen:

Gas	Measurement Range	Typical sensor replace frequency	Operating Temperature Range	T90 Response Time
NH ₃	0.....200 ppm	24 months	-20°C ... +40°C	<60s
NH ₃	0.....1000 ppm	24 months	-20°C ... +40°C	<90s
O ₂	0.....25 %	18 months	-20°C ... +55°C	<15s
CO	0.....1000 ppm	24 months	-30°C ... +50°C	<40s
Cl ₂	0.....5 ppm	24 months	-20°C ... +50°C	<45s
O ₃	0.....1 ppm	24 months	-20°C ... +40°C	<60s
SO ₂	0.....20 ppm	24 months	-30°C ... +50°C	<30s
H ₂ S	0.....50 ppm	24 months	-30°C ... +50°C	<30s
HCl	0.....20 ppm	24 months	-20°C ... +50°C	<120s
NO ₂	0.....20 ppm	24 months	-20°C ... +50°C	<40s
NO	0.....100 ppm	24 months	-20°C ... +50°C	<15s
H ₂	0.....1000 ppm	24 months	-20°C ... +50°C	<50s
H ₂	0.....10000 ppm	24 months	-20°C ... +50°C	<110s

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

Electrical

Output Signal: 4-20mA linear response
Operating Voltage: 16...36VDC, regulated
Cable Requirements: Safe zone: 2-wire connection, JAMAK 2x(2+1)x0,5 mm² or equal
Ex zone: cable must be in accordance with 60079-14 standard
Power Consumption: 0,9W (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 (IP56 with SS Protection Enclosure)
Dimensions: 89mm x 89mm x 69mm
Weight: 450g
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

Certificate

EC-TYPE EXAMINATION CERTIFICATE: Equipment or Protective Systems Intended for use in Potentially explosives atmospheres Directive 2014/34/EU, Annex II
Reference: VTT 09 ATEX 041X (Notified Body Number 0537)
Equipment: **DGTec-ex**
Manufactured by: **Detector Oy**

Ex markings: **DGTec-ex:**  II 1 G Ex ia IIC T4 **DGTec2-ex:**  II 3 G Ex ec II C T4 Gc