

DGTt2, DGTt2-ex Digital Gas Detectors



THE FINNISH SOLUTION FOR YOUR GAS DETECTION

Target Gases

- Ammonia
- Alcohols
- Car Exhaust
- CFC
- HCFC
- HFC
- Hydrogen
- Combustible Gases
- Other Gases, ask Detector Oy



Applications

Indoor Car Parks
Freezer Compartments
Cold Stores
Factory Trawlers
Battery Recharge Points
Forklift Garages

Production Areas
Painting Shops

Ice Skating Rinks Kitchens

......

Benefits

- Quality assured manufacturing, VTT (Technical Research Centre of Finland) ISO 9001
- 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.

ISO 9001:2008





Accessories











Duct Assembly Kit

SS Protection Enclosure

Pipe Mounting Kit

Test Gas Kit

'Stand alone'-type



Code No. 20715882 rev. 2.0

Principle and gases

Sensor Type: semi-conductor

Alcohols**:

Ammonia: Car Exhaust:

Refrigerants HCFC***:

Refrigerants HFC***:

Combustible Gases and Solvents***:

Hydrogen:

Gas	Measurement Range	Resolution from Reading	Sensor Repl. Frequency	Operating Temp. Range*	T90 Response Time
R-OH	505000ppm	±20%	3 - 5v	-20°C +40°C	<1 s
NH₃	10500ppm	±20%	3 - 5v	-20°C +40°C	<1 s
HC/CO	10300ppm	±20%	3 - 5v	-20°C +40°C	<1 s
R22	101000ppm	±20%	3 - 5v	-20°C +40°C	<1 s
R134a	101000ppm	±20%	3 - 5v	-20°C +40°C	<1 s
Methane	505000ppm	±20%	3 - 5v	-20°C +40°C	<1 s
H ₂	505000ppm	±20%	3 - 5v	-20°C +40°C	<1 s

Other Target Gases: ask Detector Oy

-30°C with reduced sensitivity

alcohols such as methanol, ethanol, (iso-)propanol

** HCFC (Hydro-ChloroFuoroCarbons) such as R123, R21, R22, R401A, R402A,

R403B...(permission to use ends at year 2015)

*** HFC (Hydro-FluoroCarbons) such as R125, R134a, R245fa, R404A, R407C,

R410A, R507...

**** combustible gases and solvents such as methane, propane, butane, pentane,

hexane, heptane, kerosene, petrol...

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: 4-20mA linear response + a signal light indicating the measuring/sensor fault/gas

alarm + a relay output 24V/1A in the DGTt2r and DGTt2r-ex-models

Operating Voltage: 24VDC ±20%, regulated

Cable Requirements: four-wire connection, suggested type JAMAK 2x(2+1)x0,5mm² or equal

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: (Ex) II 3G Ex nA IIC T4 Gc X



www.detector.fi

Jälleenmyyjä: