Detector
innovative gas detection systems

DGTk2, DGTk2-ex Digital Gas Detectors

THE FINNISH SOLUTION FOR YOUR GAS DETECTION

Target Gases

- Alkanes
- Alcohols
- Ammonia
- Acetone
- Ethyl Acetate
- Carbon Monoxide
- Methyl Ethyl Ketone
- Aromatic Hydrocarbons
- Hydrogen
- Other Gases, ask Detector Oy

Applications

Process Industry
Chemical Industry
Metal Industry
Natural Gas Stations
Foundries
Solvent Stores

Benefits

- Quality assured manufacturing, VTT (Technical Research Centre of Finland) ISO 9001
- Detects a big variety of combustible chemical compounds
- Industrial standard output signal
- Easy mounting due to the isolating/mounting plate
- Stylish and robust enclosure, impact resistant cast-aluminium
- Non-intrusive calibration
- DGTk2r and DGTk2r-ex types functions as independent gas detection units, equipped with a relay, buzzer and acknowledgement button

Ex DGTk2-ex belongs to Equipment Group II and Equipment Category 3. The detector can be installed in Zone 2 areas.

ISO 9001:2008

VTT ISO 9001 CERTIFIED QUALITY SYSTEM

CE

Accessories

SS Protection Enclosure

Pipe Mounting Kit

Test Gas Kit and a Fixed Test Gas Adapter

'Stand alone'-type

Principle and gases

Sensor Type:	catalytic	
Gases and Solvents:	alkanes	such as methane, propane, butane, pentane, hexane, heptane, octane, cyclo-hexane and cyclo-heptane
	alcohols	such as methanol, ethanol and (iso-)propanol
	aromatic hydrocarbons	such as toluene and xylene
	other gases:	such as ammonia, acetone, ethyl acetate, carbon monoxide MEK, hydrogen
		other target gases - ask Detector Oy

Measurement Range:	0 … 100%LEL
Resolution:	0,1%LEL
T90 Response Time:	<20sek
Typical Sensor Replace Frequency:	5 years
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 Temperature Range:	-40°C … +65°C
Operating Humidity:	non-condensing 0…95%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 DGTk2r and DGTk2r-ex-models
Operating Voltage:	24VDC ±20%, regulated
Cable Requirements:	four-wire connection, suggested type JAMAK 2x(2+1)x0,5mm^2 or equal
Power Consumption:	4W (max)

Enclosure

Installation Possibilities:	wall, ceiling 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 d nA IIC T4 Gc X