Leave your gas detection to the experts

Detector

and your environment is safe

Finnish solution for your gas detection

DGT EC SERIES

MADE IN FINLAND

DGTec Series (DGTec2, DGTec2-ex and DGTec-ex) gas detectors for measuring and monitoring toxic gases (E.g oxygen, nitrogen, methanol and hydrogen).

The detectors are suitable for measuring numerous gases. The detector is easy to install and connect to existing automation solutions, and is also compatible with other systems.

GAS DETECTOR	Safe zone	ATEX 2	ATEX 1	ATEX 0
DGTec2	x			
DGTec2-ex		x		
DGTec-ex		x	x	x

Environmental conditions

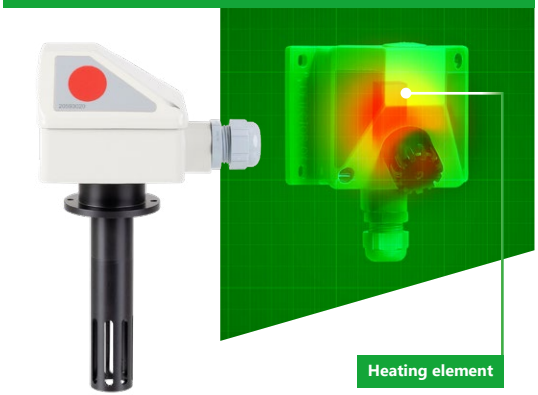
Operating humidity:
Determined by the sensor element
Operating air pressure:
normal air pressure
+10%

Technical features

Sensor type: Electrochemical
Output signal: 4-20mA
Operating voltage: 16-36 VDC
Power consumption: 3W (max.)
Cabling requirement: 2-wire connection, suggested type JAMAK 2 x (2+1) x 0.5 mm² or equal Ex zone: cable must be in accordance with 60079-14 standard
Installation options:
wall, ceiling, duct and pipe
Enclosure: Cast aluminium silicate (epoxy coated)
Colour: RAL 7032 beige
Ingress protection code: IP 54
(IP 56 with SS protection enclosure)
Dimensions: 89 mm x 89 mm x 69 mm
(width x height x depth)
Weight: approx. 450 g
Mounting: 2-4 fasteners
Cable penetration: M20

Detector

DGTec2



Safe zone gas detector, which can be used with an accessory heating element that heats the detector and radiates heat. The heating element eliminates moisture and allows the detector to be installed in cold areas.

DGTec Series detectors can also be connected to a Seguro gas detection controller for remote monitoring.

Also available in a channel mode.

DGTec2-ex

The Ex version of DGTec2-ex can be installed in Zone 2 areas.

DGTec-ex

Gas detector for use in potentially explosive atmospheres

The Ex version of DGTec-ex can be installed in Zone 0, 1 and 2 areas.

GAS	Sensor type	Measurement unit	Standard measurement range	Max. measurement range	Sensor replacement frequency (months)	Temperature range	Operating humidity	T90 response time
Ammonia (NH_3)	Electrochemical	ppm	500	1000	24	-40 °C–+50 °C	15–90% RH	<55 s
Ethylene oxide (C_2H_40)	Electrochemical	ppm	100	500	24	-30 °C–+50 °C	15–90% RH	<200 s
Hydrogen fluoride (HF)	Electrochemical	ppm	10	50	24	-20 °C–+50 °C	15–90% RH	<120 s
Oxygen (O_2)	Electrochemical	% Vol	25	30	24	-30 °C–+50 °C	5–95% RH	<10 s
Carbon monoxide (CO)	Electrochemical	ppm	300	2000	24	-30 °C–+50 °C	15–90% RH	<30 s
Chlorine (CL_2)	Electrochemical	ppm	5	50	24	-20 °C–+50 °C	15–90% RH	<45 s
Chlorine oxide (CLO_2)	Electrochemical	ppm	2	2	24	-20 °C–+50 °C	15–90% RH	<120 s
Methanol (CH_3OH)	Electrochemical	ppm	100	200	24	-40 °C–+50 °C	15–90% RH	<25 s
Ozone (O_3)	Electrochemical	ppm	1	10	24	-20 °C–+50 °C	15–90% RH	<60 s
Sulphur dioxide (SO_2)	Electrochemical	ppm	20	500	24	-30 °C–+50 °C	15–90% RH	<30 s
Hydrogen sulphide (H_2S)	Electrochemical	ppm	50	500	24	-40 °C–+50 °C	15–90% RH	<60 s
Silane (SiH_4)	Electrochemical	ppm	10	100	24	-20 °C–+50 °C	15–90% RH	<60 s
Hydrogen chloride (HCL)	Electrochemical	ppm	20	100	24	-20 °C–+50 °C	15–90% RH	<70 s
Nitrogen dioxide (NO_2)	Electrochemical	ppm	20	200	24	-30 °C–+50 °C	15–90% RH	<40 s
Nitric oxide (NO)	Electrochemical	ppm	50	1500	24	-30 °C–+50 °C	15–90% RH	<30 s
Hydrogen (H_2)	Electrochemical	ppm	10000	20000	24	-20 °C–+50 °C	15–90% RH	<110 s

If you would like additional information on other target gases, measurement and temperature ranges, please contact us at: www.detector.fi, +358 (0)207 756 480

Detector

Complementary products

For information on all accessories, see: **detector.fi/products**

Carefree safety

Detector

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reliable partner

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