

## DGTec-ex Gas Detector

ATEX Marking:	<b>Ex II 1 G Ex ia IIC T4</b> Li = 10 uH Ui = 28 V li = 100 mA Pi = 1,1 W Ci = 0,030 uF Tamb = -40...+50 °C VTT 09 ATEX 041X
Sensor Type:	Electrochemical
Output Signals:	4...20 mA, linear response
Operating Voltage:	according to the safety barrier in use
Cabling:	2-electrode, 2-wire connection, For correct cable specification refer to EN 60079-14
Typical T90 Response:	according to the cell in use, ask manufacturer
Operating Temperature:	according to the cell in use, ask manufacturer
Operating Humidity:	15...90% RH, non-condensing
Degree of Protection:	IP54
Weight:	450 g
Note:	When exposed to a shock e.g. a drop, DGTec-ex must be recalibrated.  DGTec-ex shall be connected using associated apparatus with suitable parameters. Then it can be installed in ATEX zone 0, 1 and 2.  The safety barrier must be installed outside the explosive atmosphere no more than 80 meters from the detector.

Recommendable associated apparatus (galvanic isolator):

Galvanic Isolator, Stahl 9160/13-11-11s (1 -channel)

Galvanic Isolator, Stahl 9160/23-11-11s (2 -channels)

Special conditions (X) for safe use of EC-type examination certificate:

The allowed ambient temperature range is  $-40...+50$  °C. Observe! Actual operating temperature is sensor element dependent!

To avoid ignition caused by electrostatic discharge, the plastic parts of the enclosure may only be cleaned with damp or wet cloth.

The apparatus enclosure is made of aluminium alloy. Sparks may be formed if the enclosure is subjected to friction or impact.

The device shall be connected according to the manufactures instructions.

The maximum values of the intrinsically safe input values are:

$U_i = 28$  V,  $I_i = 100$  mA,  $P_i = 1,1$  W,  $L_i = 10$  uH,  $C_i = 30$  nF

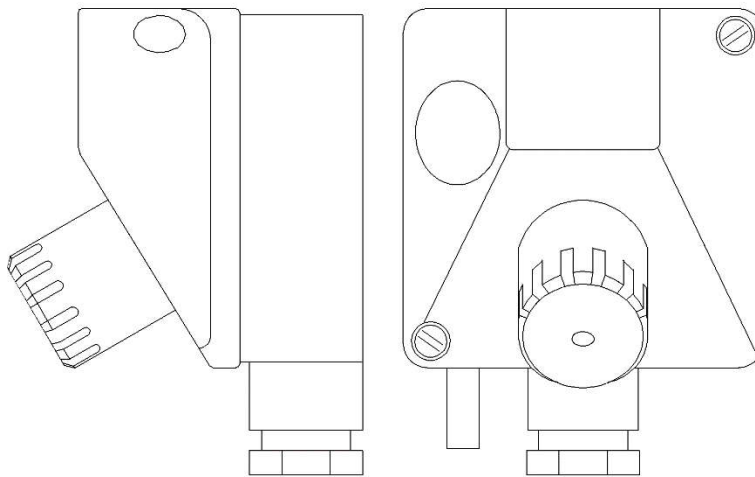


Figure 13, DGTEC-ex gas detector general view. The model and the size of the sensor protection depend on the type of the gas specific sensor.

