

DGTec2-ex Gas Detector

ATEX Marking:	 II 3 G Ex ec II C T4 Gc
Sensor Type:	Electrochemical
Output Signal:	4...20 mA, linear response
Operating Voltage:	see figures, regulated
Max. Power Consumption:	0.9 W
Cabling:	2-wire connection, For correct cable specification refer to EN 60079-14
Typical Sensor Life in clean air:	1...3 years depending on the type of sensor
Typical T90 Response:	10...150 seconds depending on the type of sensor
Operating Temperature:	according to the cell in use, ask manufacturer
Operating Humidity:	O ₂ sensor 0...99% RH, for other sensors 15...90% RH, non-condensing
Degree of Protection:	IP54
Weight:	450 g
Note:	The calibration is done by using the handheld calibration device (IRC) via infrared link. Therefore the infrared lens of the device must be clearly visible. If ambient air pressure differs more than 5% from normal atmospheric, the detector shall be recalibrated at the installation site.

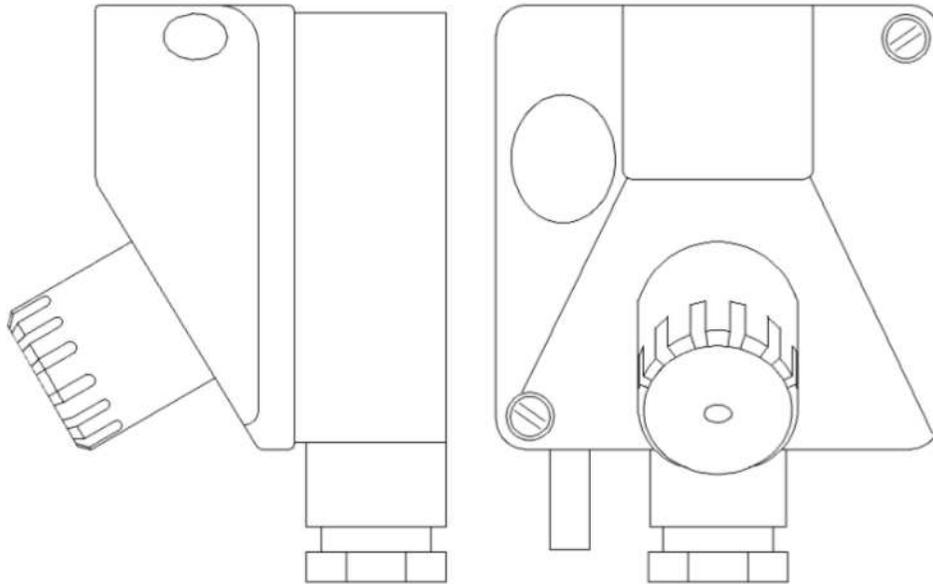
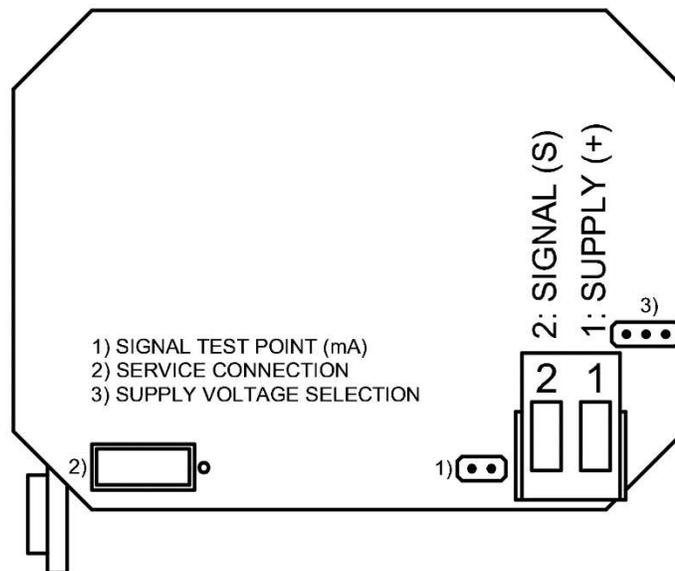


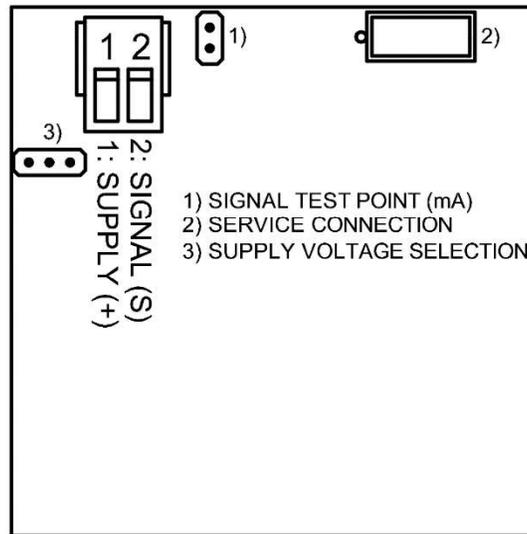
Figure 24, DGTEC2-ex gas detector general view. The model and the size of the sensor protection depend on the type of the gas specific sensor. Duct mounted DGTEC2d-ex is also available.



3) SUPPLY VOLTAGE SELECTION

-  SUPPLY VOLTAGE LO 20-34 V
-  SUPPLY VOLTAGE HI 24-40 V

Figure 25, DGTEC2-ex connections and layout on the circuit board. The circuit board version depends on the target gas.



3) SUPPLY VOLTAGE SELECTION

-  SUPPLY VOLTAGE LO 20-34 V
-  SUPPLY VOLTAGE HI 24-40 V

Figure 26, DGTec2-ex oxygen/O₂ connections and layout on the circuit board.

NB! MAKE SURE THERE IS NO RISK OF EXPLOSION!

Check the working environment with portable gas detector of right Ex class before carrying out the connections.

Do not make any connections when circuits alive!

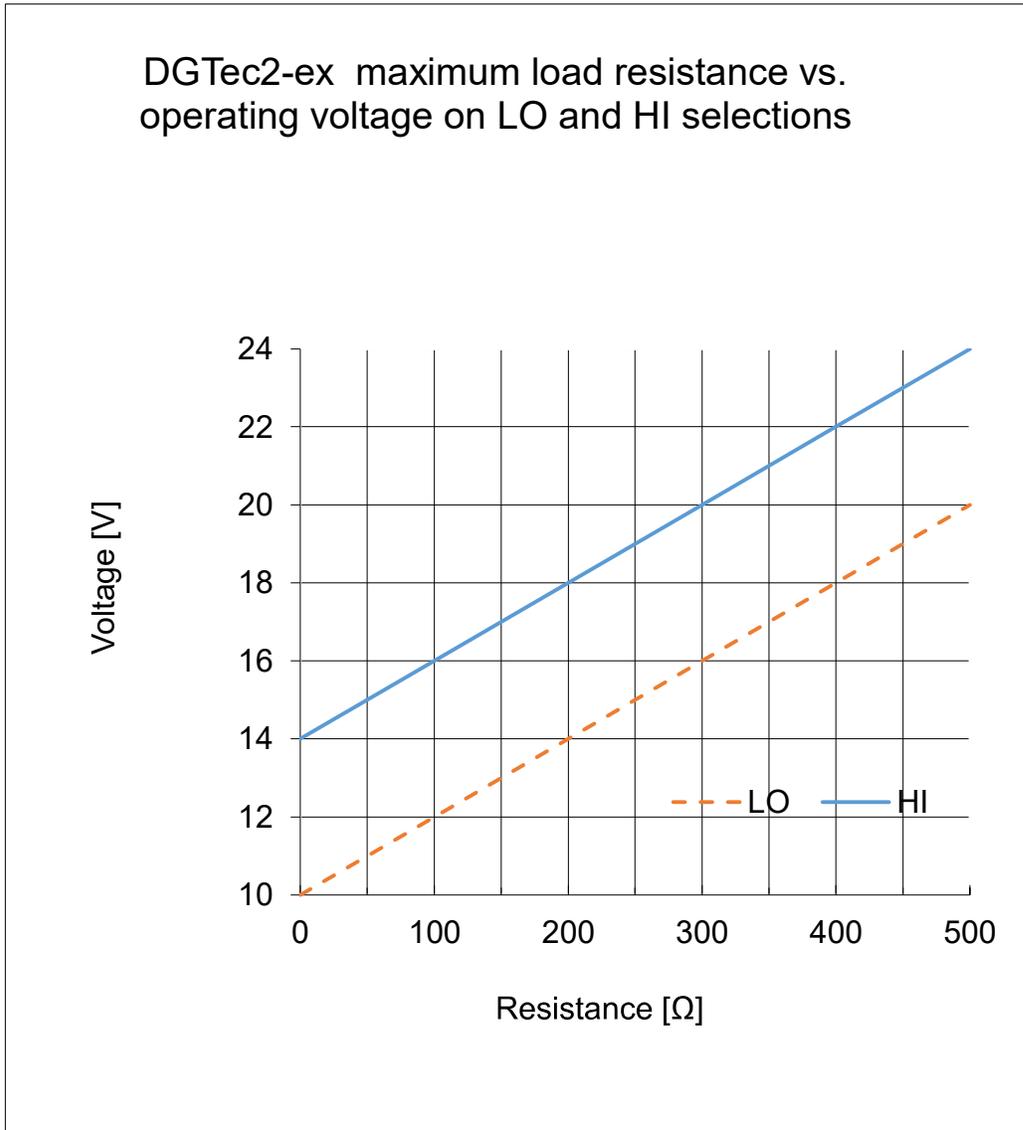


Figure 27, DGTec2-ex operating voltage and maximum load resistance.