DGTt2 Gas Detector

Sensor Type:	Solid-State
Output Signals:	(0)4…20 mA or (0)2…10 V linear or logarithmic response. NOTIFY ON ORDER! DGTt2r includes a relay 24 V / 1 A for resistive load, additionally a buzzer and acknowledge button for buzzer.
Operating Voltage:	10…36 VDC (when only relay output used), 18…36 VDC (when current output used) or 12…24 VAC
Max. Power Consumption:	4.0 W
Cabling:	4-wire connection, e.g. JAMAK 2x(2+1)x0.5 mm^2
Typical Sensor Life:	3…5 years
Operating Temperature:	Ammonia -30…+40 °C Other gases -20…+40 °C, (reduced sensitivity -30…+40 °C)
Operating Humidity:	15…90 % RH, non-condensing
Degree of Protection:	IP54
Weight:	390 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.
Indication lights:	Constant green: Normal operation mode. Constant red: Sensor failure. Blinking red: Gas alarm. Blinking will stop when the gas concentration is lower than the alarm limit.

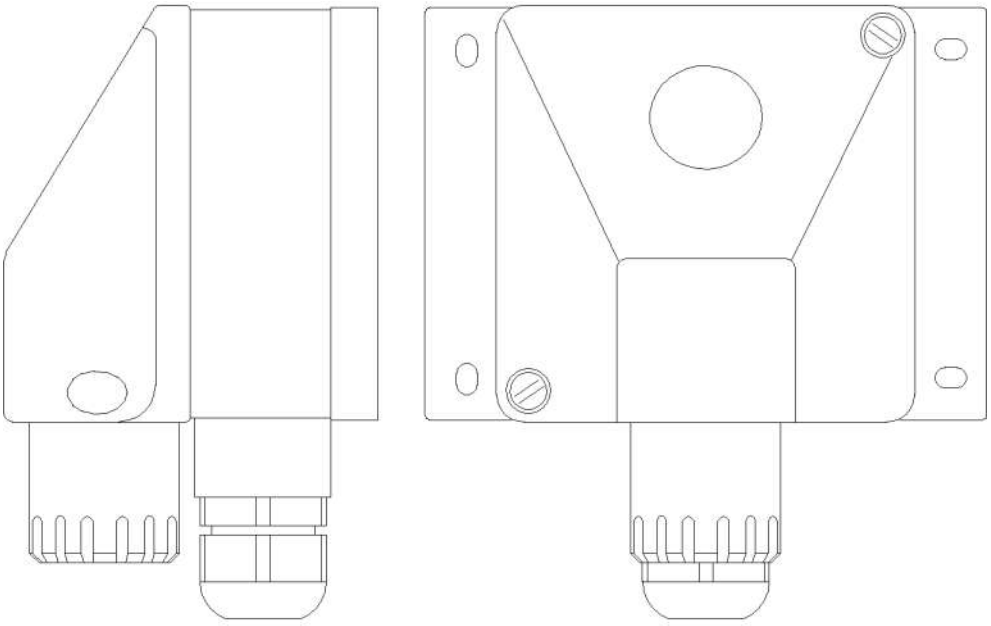


Figure 22, DGTt2 gas detector general view (-w, wall mounted). The DGTt2 gas detector can also be mounted to the ceiling (model -c) or to a duct (model -d).

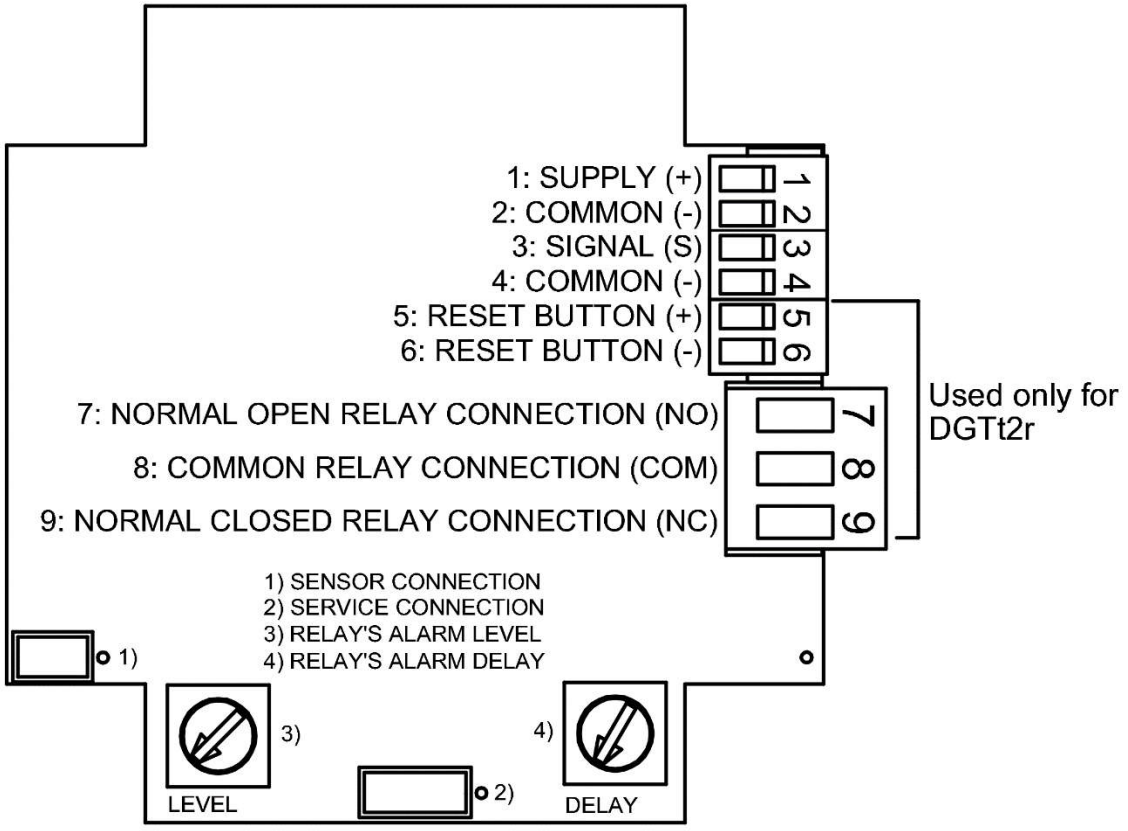


Figure 23, DGTt2 connections and layout on the circuit board.
NOTE: Availability of connections depends on the DGTt2 model.

DGTt2r DETECTOR ALARM AND DELAY SETTINGS	
ALARM LEVEL (% OF SIGNAL)	DELAY
1 = 10%	1 = 1 s
2 = 20%	2 = 3 s
3 = 30%	3 = 5 s
4 = 40%	4 = 10 s
5 = 50%	5 = 15 s
6 = 60%	6 = 30 s
7 = 70%	7 = 45 s
8 = 80%	8 = 60 s
9 = 90%	9 = 120 s
10 = 100%	10 = 180 s
11 = 110%	11 = 240 s

Figure 24, DGTt2r alarm and delay settings.

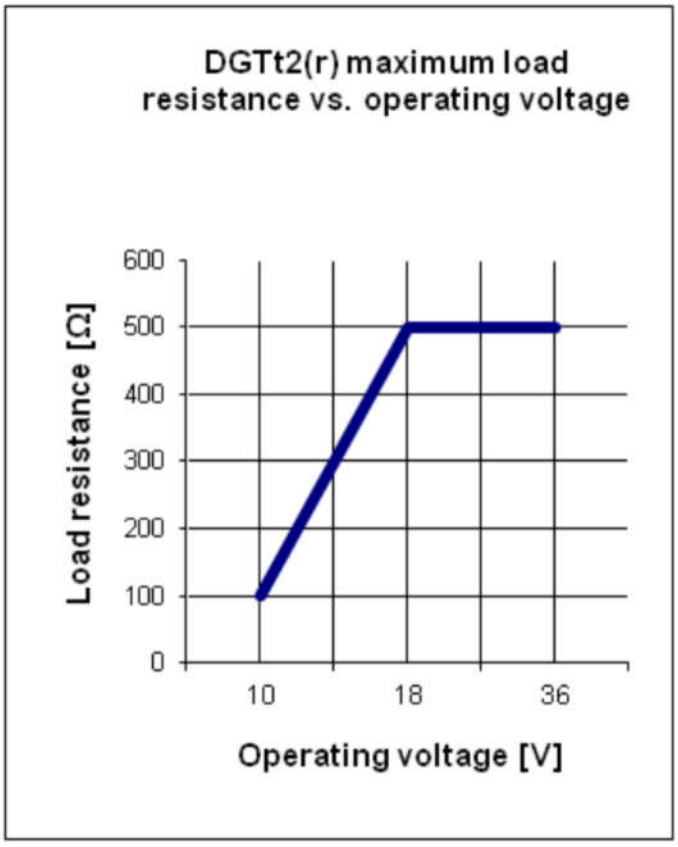
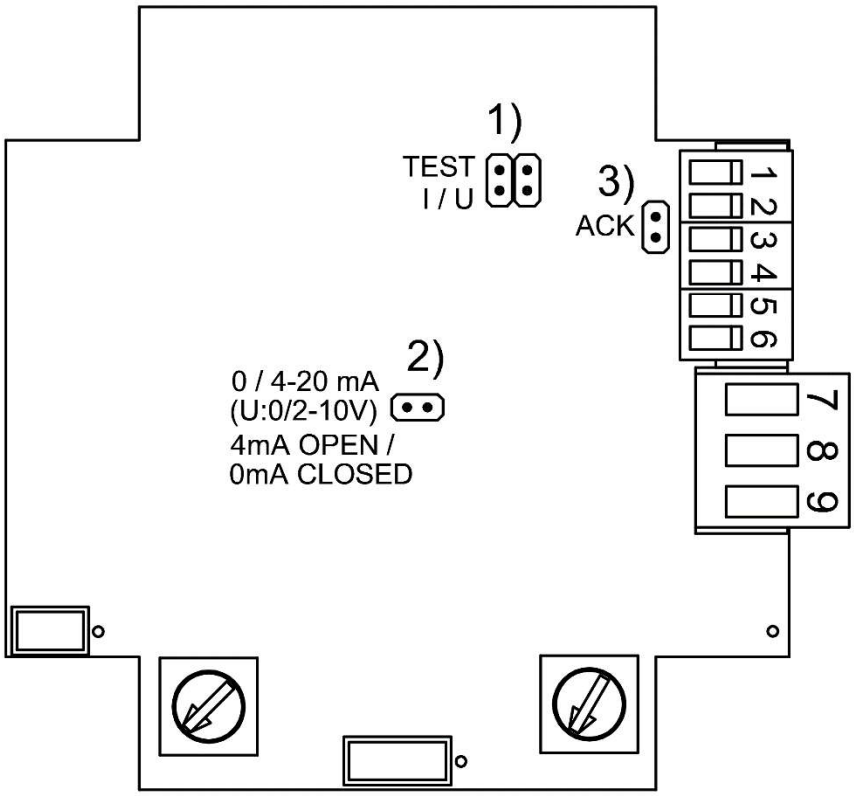
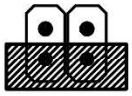


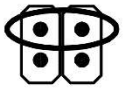
Figure 25, DGTt2r alarm and delay settings.



1) CURRENT OR VOLTAGE SIGNALS:


CURRENT SIGNAL


VOLTAGE SIGNAL


SIGNAL TEST POINT
(mA)

2) CURRENT OR VOLTAGE SIGNAL MODE:


CURRENT SIGNAL: 4-20mA
VOLTAGE SIGNAL: 2-10V


CURRENT SIGNAL: 0-20mA
VOLTAGE SIGNAL: 0-10V

3) BUZZER SELECTION, DGTt2r ONLY:


BUZZER IN USE


BUZZER NOT IN USE