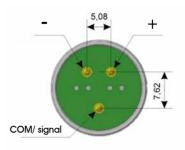
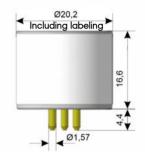


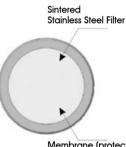
The DCT 4R series sensor is designed to measure pre-explosive concentrations of hydrocarbons, including hydrogen (H2), in the working area at the facilities of general industrial use and hazardous industries. The sensor includes a sensing element based on patented technology and provides high resistance to overloading and poisoning by hydrogen sulfide (H2S) and hexamethyldisilane (HMDS).

Features and Benefits

- High repeatability of measurement results due to patented sensing element technology
- Temperature stability. Temperature drift is less than 5% of the LFL
- Low response time in its sensor class. T90 is less than 10 seconds
- Resistant to catalytic poisoning and overloading
- Rugged construction resistant to shock (fall from a height of 8 m) and vibration loads (up to 150Hz).
- Compliance with the requirements of TR TS 012/ 2011 in potentially explosive atmospheres
- Ingress protection is IP65
- Estimated lifetime is 5 years

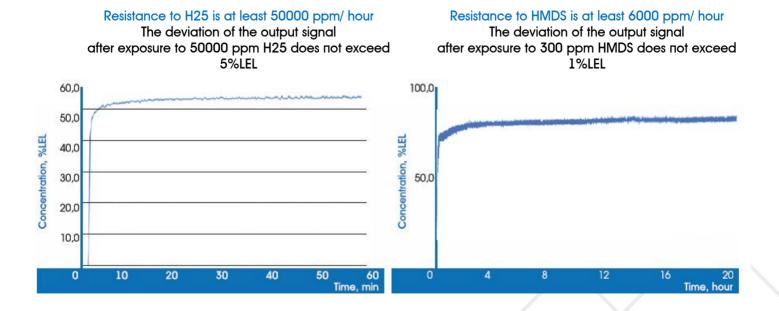






Membrane (protection against the ingress of oil products)

All measurements in mm.





Technical specifications*



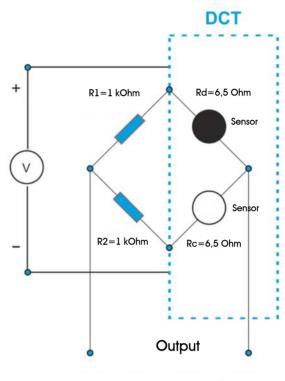
Temperature Range	-60°C to +65°C
Consumption Current	95±15 mA
Maximum Power	0.35 W
Indication Range	0-100% LEL
Supply Voltage	3±0.5 V
Resolution	1% LEL
Methane Sensitivity**	1±0.2 mV/% LEL
Maximum Output Deviation	5% LEL
Long Zero Drift	< 1% LEL/ month
Long Term Sensitivity Drift	< 3% LEL/ month
Drift with Temperature Change	< 5% LEL
Permissible Humidity	0 - 98% (non-condensing)
Operating Pressure	80-120 kPa
Time T90	<10 seconds (methane)
Enclosure Material	Stainless steel
Linearity	0-50% LEL
Power Supply	Voltage stabilized line
Periodic Check	No more than one time per 6 months when operating in clean air
Protection Degree	IP65
Explosion Proof Enclosure	PO Ex da 1 Ma / 0Ex da IIC T6 Ga

* Specifications are valid at 20 ° C with 50% relative humidity and 101.3 kPa pressure. When operating conditions change, the output characteristics may change too. ** When the oxygen content in the air of the working area is not less than 10% vol.



Cross-sensitivity table for methane calibration

N₂	Gas	Cross Sensitivity Factor (Methan)
1	CH4	1.00
2	C3H8	0.76
3	C4H10	0.54
4	C5H12	0.43
5	H2	0.63
6	C6H14	0.52
7	C2H6	0.95
8	C2H5OH	0.46
9	C3H6	0.54
10	C2H3CI	0.77
11	C6H12	1.08
12	CH3OH	0.80
13	C2H4	0.55
14	C6H6	0.59
15	C2H2	0.79
16	C4H6	0.72
17	C5H12O	0.73



DCT 4R series connection diagram

ERIS has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice.

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Corporate video

