



DAX 420

EXPLOSIVE GAS DETECTOR

$\text{CH}_4 - \text{C}_3\text{H}_8 - \text{H}_2 - \text{C}_x\text{H}_y - \text{CO}_2 \dots$

Principle:

- Catalytic
- Infrared
- Connection: 3 wires

- Output signal: 4..20 mA

- ATEX marking :

II 2G Ex db IIC T6 Gb

II 2D Ex tb IIIC T85°C Db



DALEMANS®

G A S D E T E C T I O N



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All gas detection installations must be calibrated and maintained regularly in accordance with the manufacturer's instructions to guarantee safety and performance.



CHARACTERISTICS

MATERIAL	Junction box Aluminium • Sensing head Stainless steel 1,4404 (AISI 316L) • Sintered metal filter Stainless steel 1,4404 (AISI 316L)	
DIMENSIONS (HxWxT)	170 x 145 x 90 mm	
WEIGHT	1400 g	
OUTPUT	4..20 mA current loop (3-wires)	
MEASUREMENT PRINCIPLE	CATALYTIC	INFRARED
OPERATING VOLTAGE*	19 - 30 Vdc	19 - 30 Vdc
POWER CONSUMPTION*	1,9 W max.	1,9 W max.
OPERATING TEMPERATURE	-20 °C to +55 °C	-20 °C to +50 °C
RESPONSE TIME (T90)*	< 30 s	< 30 s
ACCURACY	±3 % <60% LEL • ±5% >60% LEL	±0,5% <50% LEL • ±1% >50%LEL
EXPECTED OPERATING LIFE	> 2 years	> 3 years
HUMIDITY & PRESSURE	20 - 90 % HR (Ambient) • 10 - 99% HR (Occasional) • 90 -110 kPa	
WIRING**	0,75 - 2,5 mm ² (solid wires)	
MAX. CABLE LENGTH	1000 m	
CABLE ENTRY	1 x M20 / Ø 6,1 - 11,7 mm (other sizes available)	
LOOP RESISTANCE	50 - 750 ohms	
CASING INGRESS PROTECTION	IP6X	
ATEX MARKING	Ⓔ II 2G Ex db IIC T6 Gb • Ⓔ II 2D Ex tb IIIC T85°C Db Tamb = -20 °C to +55 °C for T6 and T85 °C	
CERTIFICATE	FTZU 09 ATEX 0182X	
STORAGE TEMPERATURE	-40 °C to +80 °C	
HAZARDOUS AREAS	Zone 1 of 2 (Gas) • Zone 21 of 22 (Dust)	
STANDARDS	EN 60079-0 • EN 60079-1 • EN 60079-31	

(*) Typical value, depends on the target gas. Depends on type of cell used.

(**) PRECAUTIONS FOR USE: Never connect the catalytic detector with a cable containing silicone in its composition or manufacture process. It could hinder or prevent full functionality of the catalytic detector. Please contact your supplier before installation.

TARGET GASES

GAS	CATALYTIC	INFRARED
METHANE(CH ₄)	0 - 100 % LEL	0 - 100 % LEL
PROPANE (C ₃ H ₈)	0 - 100 % LEL	0 - 100 % LEL
BUTANE (C ₄ H ₁₀)	0 - 100 % LEL	0 - 100 % LEL
ETHYLENE OXIDE (C ₂ H ₄ O)	0 - 100 % LEL	0 - 100 % LEL
HYDROGEN (H ₂)	0 - 100 % LEL	-
CARBON DIOXIDE (CO ₂)	-	0 - 4 % vol.

Other gases and measurement ranges upon request.

The information contained in this documentation is non-contractual and subject to modifications.

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