



DAT 420

TOXIC AND OXYGEN GAS DETECTOR CO - O₂ - NH₃ - CL₂ ...

Principle:

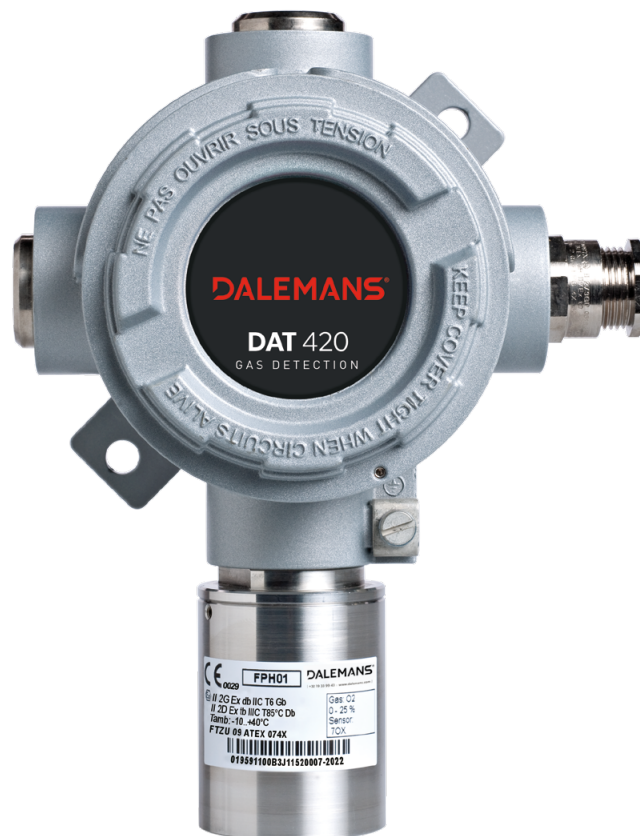
- Electrochemical
- Connection: 2 wires

- Output signal: 4..20 mA

- ATEX marking :

Ex II 2G Ex db IIC T6 Gb

Ex 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 (2-wires) |
| MEASUREMENT PRINCIPLE | ELECTROCHEMICAL |
| OPERATING VOLTAGE* | 15 - 30 Vdc |
| POWER CONSUMPTION | 1,9 W max. |
| OPERATING TEMPERATURE | -10 °C to +40 °C |
| RESPONSE TIME (T90)* | < 45 s |
| EXPECTED OPERATING LIFE | > 2 years |
| HUMIDITY & PRESSURE | 20 - 90 % HR (Ambient) • 10 - 99% HR (Occasional) • 90 -110 kPa |
| WIRING | 2 x 0.5 mm ² (twisted and shielded pair) |
| 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 0074X |
| STORAGE TEMPERATURE | -40 °C to +80 °C |
| HAZARDOUS AREAS | Zone 1 or 2 (Gas) • Zone 21 or 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.

TARGET GASES

| | |
|--------------------------------------|-------------------------------------|
| GAS | ELECTROCHEMICAL |
| AMMONIA (NH ₃) | 0-100 ppm • 0-1000 ppm • 0-5000 ppm |
| CARBON MONOXIDE (CO) | 0 - 300 PPM |
| CHLORINE (Cl ₂) | 0 - 10 PPM |
| HYDROGEN SULPHIDE (H ₂ S) | 0 - 50 PPM |
| NITROGEN DIOXIDE (NO ₂) | 0 - 50 PPM |
| OXYGEN (O ₂) | 0 - 25 % vol. |
| SULPHUR DIOXIDE (SO ₂) | 0 - 20 PPM |

Other gases and measurement ranges upon request.

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