

# D•420

## GAS OR OXYGEN DETECTOR CL2 - CO - NH3 - O2 - CO2 - FREONS ...

### Principes :

- Electrochemical
- Semiconductor
- Infrared
- Connection: 2 or 3 wires
- Output signal: 4..20 mA
- LCD display




**DALEMANS®**  
G A S D E T E C T I O N

# D•420

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



## CHARACTERISTICS

MATERIAL	Flame retardant (UL 94 V-0) and UV stabilized plastic		
DIMENSIONS (HxWxD)	142 x 119 x 51 mm		
WEIGHT	300 g		
OUTPUT	4-20 mA current loop		
 <u>MEASUREMENT PRINCIPLE</u>	<b>ELECTROCHEMICAL</b>	<b>SEMICONDUCTOR</b>	<b>INFRARED</b>
OPERATING VOLTAGE	10-30 Vdc	10-30 Vdc	10-30 Vdc
POWER CONSUMPTION	0,85 W	1,8 W	0,5 W
OPERATING TEMPERATURE	-20°C to +40°C	-10°C to +50°C	-20°C to +50°C
RESPONSE TIME (T90)*	< 45 s	< 60 s	< 30 s
ACCURACY	± 1,5 % full scale	± 10 % full scale	± 1,5 % full scale
EXPECTED OPERATING LIFE	> 2 years	> 5 years	> 5 years
HUMIDITY ( <b>NON CONDENSING</b> )	20-90 % RH	10-90 % RH	0-95 % RH
CABLE ENTRY	1 x M16	1 x M20	1 x M20
WIRING	2 wires (0,5 à 2,5 mm <sup>2</sup> )	3 wires (0,5 à 2,5 mm <sup>2</sup> )	3 wires (0,5 à 2,5 mm <sup>2</sup> )
MAX. CABLE LENGTH	1000 m		
LOOP RESISTANCE	50 - 750 ohms		
DISPLAY	LCD - 4 characters		
HOUSING INGRESS PROTECTION	IP65		
STANDARDS	EN 50270 Type 1		

\* Typical value, depends on the target gas.

## TARGET GASES

GAS	ELECTROCHEMICAL	SEMICONDUCTOR	INFRARED
AMMONIA (NH <sub>3</sub> )	0 - 1000 ppm	-	-
CARBON DIOXIDE (CO <sub>2</sub> )	-	-	0 - 4 % vol
CARBON MONOXIDE (CO)	0 - 300 ppm	-	-
CHLORINE (Cl <sub>2</sub> )	0 - 10 ppm	-	-
COOLING GASES	-	0 - 2000 ppm	-
HYDROGEN SULPHIDE (H <sub>2</sub> S)	0 - 50 ppm	-	-
NITROGEN DIOXIDE (NO <sub>2</sub> )	0 - 30 ppm	-	-
OXYGEN (O <sub>2</sub> )	0 - 25 % vol	-	-
OZONE (O <sub>3</sub> )	0 - 1 ppm	-	-
SULPHUR DIOXIDE (SO <sub>2</sub> )	0 - 20 ppm	-	-

Other gases and measurement ranges upon request.

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