



MECHANICAL					
CERTIFICATION	ATEX II 2G - EEx d IIC T6				
ENCLOSURE	Gold Anodized Aluminium (Anti-corrosion) Or AISI 316 L as option				
SENSOR BODY	AISI 316L				
INGRESS PROTECTION	IP 65 (IP 56 for sensor head)				
ELECTRICAL					
OPERATING VOLTAGE	10 to 32 Vdc				
POWER REQUIREMENT	3W as a maximum				
CABLE ENTRY	3x 3/4 "NPTF or 3x M20 as option				
ELECTRICAL CONNECTIONS	3-wire connection for power and signal 6-wire connection to the contacts for early warning, alarm and fault 4-wire connection + screen for full duplex RS 485 Modbus RTU serial line Wires are lodged in a dedicated compartment and doesn't affect the electronic circuitry Connection are made through removable connectors suitable for wires with cross section up to 2.5mm ²				
ELECTRONICS					
ELECTRONIC MANAGEMENT	Microprocessor with 16 bit signal conversion				
VISUAL MEASUREMENTS (OPTIONAL)	5x 7-segment digital display				
SUPERVISION WITH DISPLAYING ERROR CODES (OPTIONAL)	Gas sensor and its operational lifetime Temperature sensor, negative drift & over range. Available with the display board option				
TEMPERATURE COMPENSATION	Automatically throughout the operating range				
OUTPUT SIGNALS	Analogue 4-20mA (source type) MODBUS RTU RS485 full duplex				
RELAY OUTPUTS (OPTIONAL)	3 relay contacts for reporting malfunctions, gas alarm 1 and 2, voltage free contacts and protected by built-in self-resetting fuse, manually configurable NO or NC via jumpers, Choice of energized (Fail Safe) and De-energized relays selectable by the software				
CONFIGURATION AND CALIBRATION	IrDA interface via external Hand Held Programming & Calibration unit or 5-button keypad with manual & magnetic actuation according to the selected configuration				
RF RADIATION AND EMISSION	Conforms to EN 61000-6-3 and EN 61000-6				
RELATIVE HUMIDITY	0 to 95% RH non-condensing				
ACCURACY	1% of full scale				
LINEARITY	Better than 1% of full scale				
OPERATION TEMPERATURE					
SENSORS	Electro-chemical : - 20° to +50°C Infrared : - 40° to +70°C Catalytic combustion : - 40° to +80°C				
ELECTRONIC	- 50° to +80°C				
GAS DETECTION TECHNOLOGY AND STANDARD RANGES					
FL	0 - 100% LEL catalytic or infrared	O2	0-25% vol	NHS	0-100/1000 ppm
CH4	0 - 100% vol infrared	CO	0-500 ppm	O3	0-2 ppm
CO2	0 - 100% vol infrared	H2S	0-200 ppm	HCN	0-100 ppm
H2	0 - 1000 ppm electrochemical cell 0 - 10000 ppm electrochemical cell	NO	0-100 ppm	HCL	0-50 ppm
		NO2	0-20 ppm	PH3	0-5 ppm
		SO2	0-100 ppm	ETO	0-20 ppm
		CL2	0-20 ppm	F2	0-1 ppm
		CLO2	0-1 ppm	HF	0-10 ppm

Electrochemical cell is used for all above gases

Note: For measurements of gas not listed, please contact us.

RESPONSE TIME (AVERAGE)

	CH4 (50%)	H2S (20PPM)
T50	3s	14.2s
T60	4.8s	17.1s
T90	31s	35.2s

PHYSICAL CHARACTERISTICS

DIMENSIONS	See drawing
WEIGHT	2.5Kg

OPTIONAL ACCESSORIES

- Sunshade for protection against solar radiation
- Hydrophobic Teflon filter
- Flow Adapter AISI 316 , Extension tube AISI 316L for remote sensor up to 1.5m “, for the detection of heavy gases such as H2S
- Extension kit for remote sensor up to 15 meters
- Duct mounting adaptor in AISI 316L or plastic
- Fixing plate in AISI 316L
- Calibration kit

MECHANICAL LAYOUT

