



MECHANICAL					
CERTIFICATION	ATEX II 2G - EEx d IIC T6				
ENCLOSURE	Cast Aluminium Anodized with Epoxy Coating or AISI 316L (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				
ELECTRONICS					
ELECTRONIC MANAGEMENT	Microprocessor with 16 bit signal conversion				
VISUAL MEASUREMENTS	5x 7-segment digital display				
SUPERVISION WITH DISPLAYING ERROR CODES	Gas sensor and its operational lifetime Temperature sensor, negative drift & over range				
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	Non-intrusive, with 5-button keypad with manual & magnetic actuation				
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	2Kg

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 AISI 316L
- Calibration kit

MECHANICAL LAYOUT

