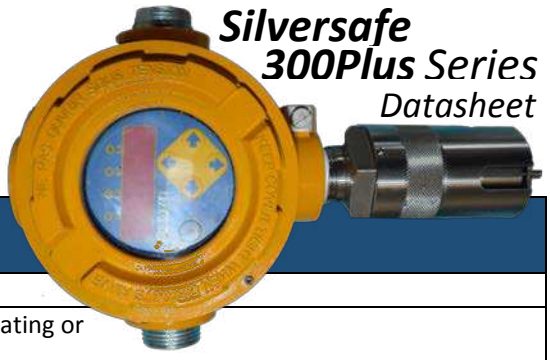
Silver-Tec
Instrumentation for your safety ...

Silversafe 300Plus Series Datasheet



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 MEASURMENTS	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
LINEARATIY	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**
CH4	0 - 100% vol **infrared**
CO2	0 - 100% vol **infrared**
H2	0 - 1000 ppm **electrochemical cell** 0 - 10000 ppm **electrochemical cell**

O2	0-25% vol	**NH3**	0-100/1000 ppm
CO	0-500 ppm	**O3**	0-2 ppm
H2S	0-200 ppm	**HCN**	0-100 ppm
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.

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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