Stand-alone data logger and communicating H2S sensor

LOGAZV4

This sensor integrates a power source, communication, an H2S gas sensor and data logger, while guaranteeing long autonomy. Measurement is done by an electrochemical sensor built into a measuring head. It is easily interchangeable on site and comes with its own calibration system.

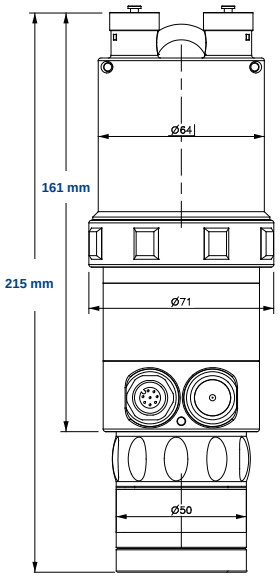
The sensor can be used either for conventional diagnostics and data acquisition, or in a communicating version with a choice of wireless communication modes: Radio / 2G / 4G (LTE-M / NB-IoT) / LoRaWAN to various supervision systems and FTP servers (CSV format available). The logger can be equipped with an interchangeable communication card allowing to switch from 4G to LoRa without changing the entire hardware.



- **Measurement range: 0 - 2000 ppm**
- **Wireless configuration via RFID**
- **Communication: Radio + 1x optional communication card**
- **2G /LTE-M /NB-IoT ou LoRaWAN**
- **Memory: 500,000 measures**
- **IP68 logger** (10 meters 30 days)
- **Self-powered**

Features **LOGAZV4-2000-H2S-82-LTE (868 MHz) - LOGAZV4-2000-H2S-92-LT (915 MHz)**	
Net weight	550 g
Measure period	Minimum 10 seconds
Radio	Internal antenna - 100 m free-field range - WIJI® protocol
Radio frequencies	868 MHz (Europe - China) / 915 MHz (United States, Canada, Australia, etc.)
Data logger	500,000 measures
Internal battery	3.6 V - 34 Ah (A0G00030) • Allows configuration by radio and restores the correct time in the event of a power cut (for datalogger function) • Battery operation does not allow use of process outputs
Temperature range	-40°C ... 85°C
Housing	PA12 20% FV
Logger ingress protection rating (without gaz sensor)	IP68 (10 meters 30 days)
Programming	Wiji or Wiji-key programming kit (P/N M0C0001) including AVELOUR software

Certifications	
ATEX certification zone 2	II 3G Ex ic ec IIB T4 Gc Ambient temp: -20 °C to 60 °C
CE/FCC/IC certified -	SE6A002-A0102 / IC: 10983A-A002-A0102



2G /4G Modem features		
Frequency Bands	**LTE-FDD**	Cat M1 : B1 / B2 / B3 / B4 / B5 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B26 / B27 / B28 / B66 / B85 Cat NB2 : B1 / B2 / B3 / B4 / B5 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B28 / B66 / B71 / B85
	GSM/EDGE	B5 / B19 / B3 / B2
RF Emission Power	**GSM 900**	+ 33 dBm
	GSM 1800	+ 30 dBm
	LTE B1 / B3 / B8 / B20	+ 23 dBm
B1 (2100) / B2 (1900) / B3 (1800) / B4 (1700) / B5 (850) / B8 (900) / B9 (1800) / B12 (700) / B13 (700) / B18 (800) / B19 (800) / B20 (800) / B25 (1900) / B26 (850) / B27 (850) / B28 (700) / B66 (1700) / B71 (600) / B85 (700)		

Sensor features	
Gas sensor characteristics	H2S 0-2000 ppm
Typical measurement range	0 - 2000 ppm
Maximum overexposure	10,000 ppm
Sensor accuracy	± 0.15% full scale
Resolution	1 ppm
Temperature range	-30 °C to + 50 °C
Relative humidity range	15 to 90% RH without condensation
Pressure range	80 to 120 kPa
Sensor ingress protection rating	IP66
Dimensions	Ø54 x 58 mm
Weight	108 g
Calibration	Built-in to cartridge