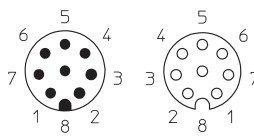# LOGAZPRO-H2S: H2S logger with process output

Features

- **Measuring range : 0-200 or 0-2000ppm**
- **Wireless setting with Rfid technology**
- **Outputs : 4-20mA and/or Modbus RS485**
- **Memory : up to 500 000 measures**
- **Logger enclosure rating IP68**

This logger integrates the H2S sensor and some outputs so-called process like 4-20mA and Modbus RS485.

The measurement is performed by an electrochemical cell, the measuring head is easily interchangeable on-site and embarks its calibration.
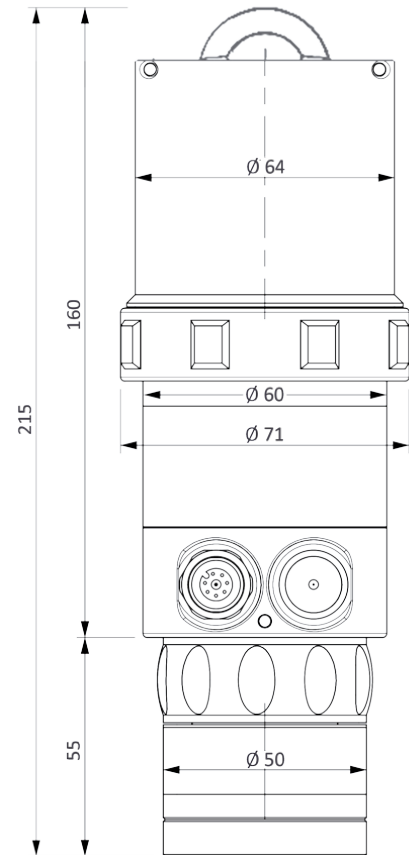
The sensor has radio communication capabilities up to 100m for configuration and a logger that allows measurement history retrieval also by radio.

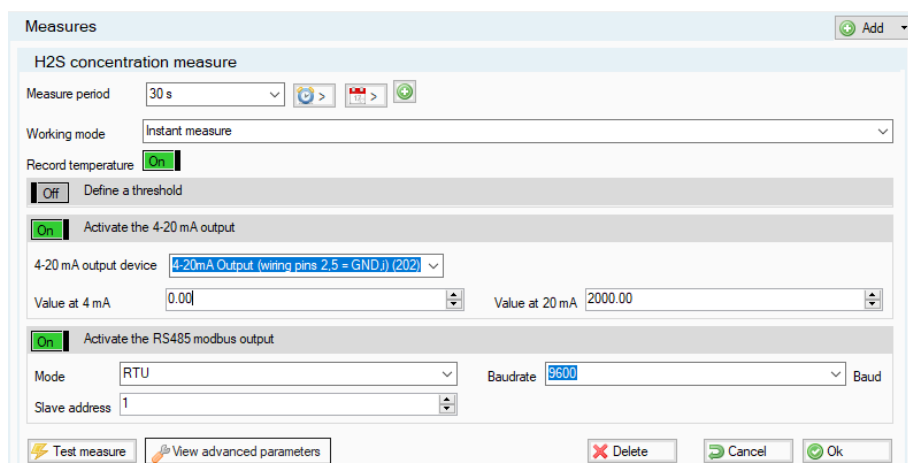| Features	Data logger **LOGAZPRO-200X-H2S-8X (868 MHz)** - **LOGAZPRO-200X-H2S-9X (915 MHz)**
Power supply	External : 7 … 30Vdc ; 1Watt max so 150mA (7V) to 40mA (30V) Internal : lithium battery 3,6V 17Ah (PN : A0100009) used for the autonomous datalogger mode
Process output **External power supply necessary (8...30Vdc)**	- **4-20 mA current loop** (the sensor can not be powered by the loop : *3 -wires connection required*) - **Modbus RS485** 　• Mode ASCII or RTU 　• Speed (Baud) 600, 1200, … ,19200, 38400, 57600 (default 9600 baud) 　• 8 bits data, 1 stop bit, no parity by default 　• Configurable slave address (default address =1) 　• Reading of concentration on the extended Modbus table (@184 cf : K0K00011, available in the configuration of the logger using our software Avelour *Word (16bits) coded in « little endian » : lsb first* *Short = 1 word = 16bits / Long = 2 words = 32bits* *Inversed 32bits = word 2 before word 1*
Measuring period	Minimum 10s
Connector	**Connector M12 – 8 points** **1- Vin (white)** **2- GND (brown)** **3- RS485-High (A) (green) : Modbus output** **4- RS485-Low (B) (yellow) : Modbus output** **5- Current output (grey) : 4-20mA**
Radio	Internal antenna – 100m distance coverage - Protocol WIJI®
Frequencies HF	ISM 868MHz (Europe) / 915MHz (USA)
Data logger	500 000 Measures
Operating temperature	-40 …85°C
Housing	ABS 20%FV
Ingress Protection	IP68 (only with the use of Ijinus mounting kit ; ref : H0T00060)
Programming	AVELOUR software part of the programming kit M0C00001(868 MHz), or M0C00002(915 MHz)
Atex Zone II	II 3G Ex ic ec IIB T4 Gc Tamb : -20°C...60°C
Certification CE/FCC/IC	CE - FC : SE6A001 - IC : 10983A-A001

LOGAZPRO-H2S: H2S logger with process output

Dimensions LOGAZPRO-H2S	Ø71 x 215 mm
Weight	365g
Internal battery	**3,6V 17Ah** *- Allows radio configuration and to save the hour in case of power failure for the logger function* *- Battery operation does not allow the use of process outputs*

Gaz cell features	H2S 0-200 ppm	H2S 0-2000 ppm
Typical measuring range	0-200ppm	0-2000 ppm
Maximum overexposure	500ppm	10000 ppm
Cell accuracy	± 0,5% FS	± 0,15% FS
Resolution	1 ppm	
Operating temperature	-30°C up to +50°C	
Relative humidity range	15 up to 90% HR without condensation	
Pressure range	80 up to 120kPa	
Cell enclosure rating	IP66	
Dimensions	Ø54 x 58mm	
Weight	108g	
Calibration	Integrated to the cell	

Configuration with Avelour:

Current loop application :
The sensor can not be powered by the loop in current output mode

To powered the sensor et recorded data, the three wires must be connected:
White (n°1) : Vin (between 7 and 30V)
Brown (n°2) : GND
Grey (n°5) : Iout 0-20mA