



Standalone communicating data logger

LOG09V4

The **LOG09V4** is data logger is a standalone unit incorporating a battery and communication options such as GSM-GPRS (2G, 4G or LoRaWAN), depending on the model. The logger can be equipped with an interchangeable communication card allowing to switch from 4G to LoRa without changing the entire hardware.

The configuration is done quickly and safely nearby, using a radio connection.

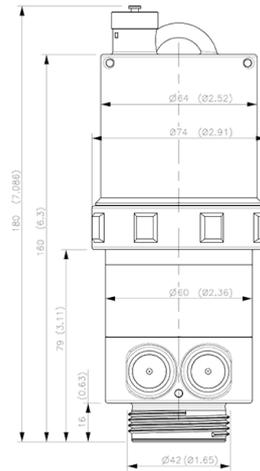


- **Wireless radio settings (Wiji protocol)**
- **Communication: local radio + optional communication card: 2G / 4G (LTE-M / NB-IoT) or LoRaWAN**
- **Memory: 500,000 measurements**
- **IP68 ingress protection (1 Bar/30 days)**
- **Long-life lithium battery**
- **1 external power input (5V - 30V)**
- **1 Modbus input or output**
- **2 x 4-20 mA analog inputs**
- **1 power output (internal battery or switch)**
- **1 Open drain output**

Applications

- | | |
|---|---|
| <ul style="list-style-type: none"> • Area-Velocity Flow • Lift stations • Level and flow using pressure sensor • Rainfall measurement | <ul style="list-style-type: none"> • Combined Sewer Overflow • Water quality sensors • Groundwater resources • Access point HF/GPRS |
|---|---|

Features	LOG09V4-82-LTE (868 MHz) LOG09V4-92-LTE (915 MHz)
Data logger	500,000 measurements
Concentrator	Yes
Inputs	<ul style="list-style-type: none"> • 1 Voltage input (5V - 30V) • 1 Modbus input (if not used as output) • 2 Current inputs (4-20 mA)
Outputs	<ul style="list-style-type: none"> • 1 Voltage output (5V-18V on internal battery or Vin switch) • 1 Open Collector Output • 1 Modbus output (if not used as input)
Communication	<ul style="list-style-type: none"> • HF radio (868 or 915 MHz) • 2G / LTE-M / NB-IoT (via FTPS, HTTPS, COAP or MQTTS protocols)
Radio communication	100M free-field (Wiji protocol)
Radio / mobile antenna	Internal or external radio - External mobile. See configurator for options overleaf.
Temperature range	-40°C to 85°C
Data logger material	PA12
Ingress protection	IP68 (only if using Ijinus mounting kit; P/N: H0T00053 or H0T00060)
Power supply	Battery: 3.6V 34Ah
Configuration	Wireless Programming Kit (PN: M0C00001) integrating AVELOUR software
Atex zone 2 certification	II 3G
	Ex ic ec IIB T4 Gc Ambient temp: -20°C to 60°C
Certifications	 : SE6A002-A0102 / IC: 10983A-A002-A0102



Wiring



Female



Male

Cable color	White	Brown	Green	Yellow	Grey	Pink	Blue	Red
8-pin connector: No.	1	2	3	4	5	6	7	8
Name	Vin	GND	Vout	Input OR Output	Input OR Output	Input	Input	Output Open-Drain
Features	(5 V - 30 V)	Ground	5 V - 18 V * (internal battery) or Switch Vout = Vin	RS485-H	RS485-L	Current 1	Current 2	Contact Grounding
Type	Power supply input		Power supply output	Modbus	Modbus	Digital	Digital	Open drain (1 A / 30 V)

* Maximum 1.8 W on V_{out} if the connected sensor is powered by the internal battery (voltage adjustable via software)

Options configurator			
LOG09V4	1x Power input (5 V - 30 V), 2x analog inputs (4-20 mA), 1x Modbus input OR output 1x Power Output (5 V - 18 V), 1 Open drain Output		
Code	Frequency		
8	868 Mhz Europe - China		
9	915 Mhz USA - Canada - Australia		
	Code	Antenna	
	0	Internal radio	
	1	External radio	
	2	Internal radio / external mobile	
	3	External radio / external mobile	
	Code	Communication options	
	Empty	Local radio communication	
	LTE	Radio communication + 2G / LTE-M / NB-IoT	
	LP1	Radio communication + LoRaWAN	
LOG09V4-	8	2	LTE = LOG09V4-82-LTE