

# BLUE data logger for water network diagnosis



## The most versatile logger on the market

Battery powered and compact data logger allowing you to record many different parameters (pulse count, Modbus flow meter, 4-20mA pressure sensor, ...).

The **BLUE** logger can be equipped with an interchangeable communication card (2G, LTE-M or NB-IoT) or a LoRaWAN communication card to send data to a SCADA. The communication card can be replaced on site by an operator without the need to return it to Ijinus customer service.



- Quick and easy installation
- Battery powered logger with a 500 000 measures memory
- 4x digital contact inputs or counter 100 Hz max
- 2x 4-20 mA inputs
- 1x Modbus RS485 interface
- 1x open collector output
- Drinking water certification : NSF/ANSI 61/372 -MH60087
- Configuration by radio on-site
- Communication option by 2G / 4G (LTE-M - NB-IoT) / LoRaWAN

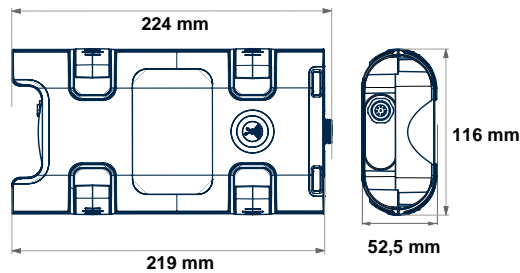
<b>Data Logger memory</b>	500 000 measurements
<b>Inputs</b>	4x pulse inputs 100 Hz 2x 4-20mA inputs 1x RS485 Modbus inputs (if not used as output)
<b>Outputs</b>	1x Open collector 1x Modbus output (If not already used as input)
<b>Connector</b>	M12 12 points
<b>Antennas : radio / cellular</b>	Internal radio antenna, and internal / external cellular antenna
<b>Communication protocols</b>	FTPS, HTTPS, COAP or MQTTS
<b>Logger Housing</b>	PA12 50% glass fiber
<b>Sealing grade</b>	IP68 : 2m / 100 days
<b>Energy</b>	Battery : 3,6V 34Ah
<b>Configuration</b>	Wireless configuration kit (PN : MOC00001 or WijiKey) that includes the software AVELOUR
<b>Dimensions and weight</b>	224 x 116 mm for a thickness of 52,5 mm 700g (with battery and cellular card)
<b>Operating T°</b>	- 20 to + 70°C
<b>Certifications</b>	 

Blue logger part numbers	
<b>BLUEV4-80</b>	Battery powered logger Data download by radio on-site
Optional cellular communication card	
<b>BLUE-82-LTE</b>	Battery powered logger + radio / 2G / 4G (LTE-M / NB-IOT)
<b>BLUE-82-LP1</b>	Battery powered logger + radio + LoRaWAN



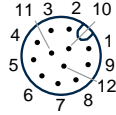
2G /4G Modem features		
Frequency Bands	LTE-FDD	Cat M1 : B1 / B2 / B3 / B4 / B5 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B26 / B27 / B28 / B66 / B85 Cat NB2 : B1 / B2 / B3 / B4 / B5 / B8 / B12 / B13 / B18 / B19 / B20 / B25 / B28 / B66 / B71 / B85
	GSM/EDGE	B5 / B19 / B3 / B2
Emission RF Power	GSM 900	+ 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)		

Accessory P/N	
D0I00137	Cord M12 12 Pts male / bare wires for Blue dataloggers – cable 3 m
D0I00138	Cord Modbus Blue dataloggers / flowmeter krohne – cable 3 m. Modbus connectivity
D0I00139	Cord multifonctions Blue dataloggers / flowmeter ABB - cable 3 m. Modbus connectivity and counting
G0D00051	Junction box M12 12 Pts male / 3x embases M12 12Pts fem – cable 0.25 m

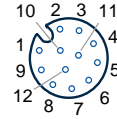




Connector wiring:



Male



Female

<b>Cable colors</b>	Brown	Blue	White	Green	Pink	Yellow
<b>PIN number</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
<b>Signal</b>	GND	AI 1	V in	V out	AI 2	Input or output
<b>Features</b>	Ground	Current 1	External power or battery (5V...30V)	Power 5V...18V* (internal battery) or Switch Vout=Vin	Current 2	RS485-H
<b>Type</b>		4-20 mA	Power Supply in	Power Supply out	4-20 mA	Modbus

\* 1,8 W maximum on Vout, if external sensor connected and powered by internal battery (adjustable voltage by software).

<b>Cable colors</b>	Black	Grey	Red	Purple	Grey / Pink	Blue / Red
<b>PIN number</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>12</b>
<b>Signal</b>	DI 1	Input or output	Open drain output	DI 2	DI 3	DI 4
<b>Features</b>	Digital 1 / Counter 1 100 Hz	RS485-L	Ground contact	Digital 2 / Counter 2 100 Hz	Digital 3 / Counter 3 100 Hz	Digital 4 / Counter 4 100 Hz
<b>Type</b>	Digital	Modbus	Open drain (1A/30V)	Digital	Digital	Digital