

# BLUE data logger for water network diagnosis

## The most versatile logger on the market

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

The **BLUE-LP** logger is equipped with a pressure sensor 0-16 bar, allowing you more pressure control of your networks.

Both **BLUE** and **BLUE-LP** can be equipped with an interchangeable communication card 2G, LTE-M or NB-IoT (via FTP, HTTPS, COAP or MQTT protocols) or LoRaWAN 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.



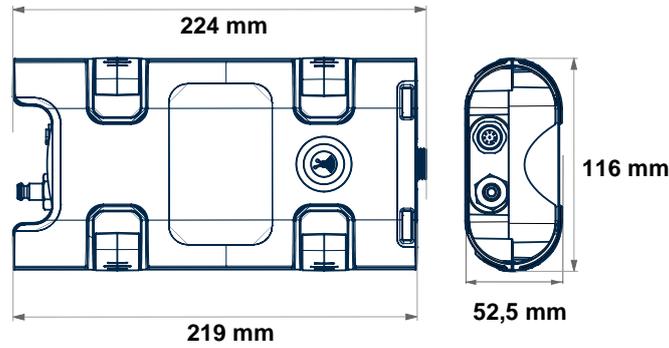
- **Quick and easy installation**
- **Battery powered logger with a 500 000 measures memory**
- **4x digital contact inputs or counter 100 Hz max.**
- **2x 4-20 mA inputs**
- **1x Modbus RS485 interface**
- **1x open collector output**
- **Configuration by radio on-site**
- **Communication option by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

<b>Data Logger memory</b>	500 000 measurements
<b>Inputs</b>	2x 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>	 

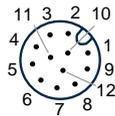
<b>Logger pressure type</b>	Absolute
<b>Measuring range</b>	0-16 bar
<b>Test pressure</b>	50 bar
<b>Burst pressure</b>	200 bar
<b>Accuracy</b>	≤ 0.3 % full scale
<b>Operating / storage temperature</b>	-30°C to + 85°C / -30°C to + 100°C
<b>Certifications</b>	NSF/ANSI 61/372 - MH60087



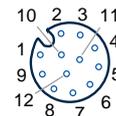
Blue logger part numbers	
<b>Optional built-in pressure sensor BLUE-LP-80 Battery</b>	
<b>BLUEV4-LP-80</b>	Battery powered logger Data download by radio on-site + built-in pressure sensor (0...16 bar)
<b>Optional cellular communication card</b>	
<b>BLUEV4-LP-82-LTE</b>	Battery powered logger + radio / 2G / 4G (LTE-M / NB-IOT) + built-in pressure sensor (0...16 bar)
<b>BLUEV4-LP-82-LP1</b>	Battery powered logger + radio + LoRaWAN + built-in pressure sensor (0...16 bar)



Connector wiring:



Male



Female

Cable colors	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 2	V in	V out	AI 1	Input or output
<b>Features</b>	Ground	Current 2	External power or battery (5V...30V)	Power 5V...18V* (internal battery) or Switch Vout=Vin	Current 1	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).

Cable colors	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