

## UB-V Digital velocity sensor

### Smart velocity sensor

UB-V is designed to optimize the overall performance of velocity measurements when coupling to Ijinus battery powered solution. Data communication is possible via GSM / GPRS / 3G.

### Ultra compact to ultra-long lasting

Polyvalent with various connection possibilities, it is possible to directly power the sensor with a classic Modbus logger for a short-term measurement period or to add a battery pack for an autonomy longer than one year. The combination with an Ijinus ultrasonic sensor will make it an assembly providing water height, velocity, flow and volume.

### Quality and accuracy of the velocity measurement

Equipped with a pulsed Doppler technology at 1 MHz frequency and a specially adapted hydrodynamic shape, it allows maximum, minimum and average measurements of velocity in less than one second.

### Unique performance for a velocity sensor

This sensor accurately measures very low velocity and water depths as low as 30 mm, even in water that is low in particle. It also provides performance indicators such as signal quality, standard deviation and ratios between average and maximum velocity. It also includes temperature measurement as well as an inclinometer whose data are useful for diagnosing the performance of the installed sensor.



### Specifications of the UB-V sensor

<b>Dimensions :</b>	H 2,7 cm W 2,8 cm x L 16,2 cm
<b>Cable length</b>	10, 15 or 20 m
<b>Required power supply</b>	7 up to 28 V
<b>Velocity measurement range</b>	-1 up to 4 m/s bidirectional
<b>Resolution on velocity</b>	+/- 0,001 m/s
<b>Minimum water height for velocity measurement</b>	30 mm
<b>Technology</b>	Velocity : Pulsed submerged Doppler 1 MHz
<b>Measurement angle</b>	65° / Horizontal
<b>Measuring period</b>	Adjustable starting from 10 seconds

