



FEATURES

- To be able to measure flow velocity and flow rate in channels and rivers, the water level has to be 20 cm higher than the sensor. To be able to measure flow velocity and flow rate in pipeline and culvert, water level has to be more than 20cm higher than the sensor, tubing inner diameter has to be ≥ 500 mm.
- The product is a kind of sensor that measures flow velocity and flow rate in natural waters, channels or pipes.
- The flow meter is divided into two parts: sensor and host, connected by cable.

STANDARD PARAMETERS

Structure	Split type
Measurement categories	Velocity, Flow, Water Depth, Water Temperature
Level of protection	IP68
Purpose	On-line measurement
Velocity measuring range	The standard is 0.04m/s~5.00m/s (the sensor is 20 cm above minimum depth); Other velocity range can be customized.
The velocity measurement resolution	1mm/s
Velocity measurement precision	$\pm 2 \sim 4\%$ of measuring velocity
Water depth measurements	0.02m~10.00m
Resolution	2mm
Accuracy	$\pm 0.5\%$
Temperature range	0~60°C; resolution: 0.1°C
Flow range	10L/s~99999999 cubic meters/hour
Power supply	Battery, 12VDC
Output signal (battery)	RS485
RS485 output signal content	Flow velocity, instantaneous flow, cumulative flow, water level and temperature
Output signal (external power supply)	4-20mA
4-20mA output signal content	Instantaneous flow rate
Cable length between sensor and transmitter	10m
Types of channels subjected to measurement	PIPELINE, channels, natural stream and rivers
pH value requirement	pH between 6~8, no corrosive effect on sensor
Liquid temperature requirement	0~50°C
Liquid pressure requirement	Natural environment condition, 1 standard atmospheric pressure
Power supply for flow meter	11~14VDC
Power supply current	250mA
Continuous working power consumption	$14V \times 200mA = 14V \times 0.25A = 3.50W$