



OVERVIEW

Operation

BASS intelligent channel flow measurement system-channel flow meter is a device that can directly measure the average flow rate of the flowing medium. The channel flow measurement system uses the velocity-area method measurement principle as the basic measurement method. The working principle of the system is to generate a vertical local magnetic field by laying a local excitation system next to the flow medium. The electric potential difference generated by the cutting magnetic field when the water flows is the collection of the potentials of all the particles on the cross-section of the water. Therefore, the measured flow rate is the average value of the flow rate. The average flow velocity is multiplied by the area of the channel section to get the instantaneous flow of the channel. The area of the cross-section is a function of the water level, and the water level of the cross-section is measured by level gauges of different principles. The level gauge is generally composed of ultrasound, pressure, float, etc. The system provides a perfect solution for flow measurement in different environments. It can run in some harsh environments, including open and closed section flow and velocity measurement of regular and irregular channels.



Features

- The measuring system can measure liquid level, average flow rate and cumulative flow
- Reasonable digital model coupled with advanced process technology and multiple pairs of electrodes for automatic tracking measurement can accurately measure different forms of cross-sectional flow velocity
- Wide measuring range (0.01-10m/s)
- The measurement is not affected by floating objects in the water, sediment content, water level changes and temperature
- The flow sensor is easy to install. The channel can be installed directly without modification, the installation and construction are less difficult and the cost is low
- Instrument display function: it can display water level, average flow velocity of section, instantaneous flow of section, gate opening degree, etc. at the same time

TECHNICAL PARAMETER

Transmitter	Accuracy	Level: $\pm 0.5\%$ Velocity: $\pm 1\%$ System: $\pm 2.5\%$
	Measure Range	0.03m/s-10m/s
	Power Supply	12V/24V/220V/Solar
	Communication	RS485 MODBUS
	Protection	IP65
	Totalizer Display(Maxi.)	9999999999
	Instant Flow(Maxi.)	10000
	Flow Velocity	19.999
	Level Maxi. Display	19.999
	Power Consumption	<5w(12v)
Sensor	Flow Velocity Sensor	Can Custom Made
	Level Sensor	Pressure,ultrasonic,radar,etc
	Signal Cable	Standard 10m
	Protection	IP68
Optional		Solar supply,support,etc.

