



SENSOR  
TECHNOLOGY

# Ultrasonic Flow Meter Module

- No moving parts
- High accuracy
- Low power consumption
- Lead-free material



## Ultrasonic Flow Meter Module

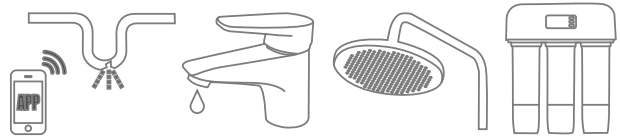
The Ultrasonic Flow Meter Module uses ultrasonic waves to measure liquid flow rate and outputs digital flow signals directly. It consists of a lead-free measuring pipe and a pair of master-slave connected ultrasonic sensors. The circuit integrated in the sensor can calculate instantaneous flow rate and accumulated water usage with the time-of-flight method and monitors the status of fluid and pipe. The flow data are transmitted by serial communication for further processing or development.

### Features

- No moving parts
- Low power consumption
- Active alert for abnormal status such as pipe dripping, transducer failure, etc.
- Approved for drinking water
- Digital output with M-BUS serial communication

### Applications

- Measuring the outflow of water heaters
- Intelligent water management system
- Industrial equipment
- Smart irrigation system



Model Number	FS0001	FS0002
Nominal Diameter	DN 15	DN 10
Accuracy	±5% (15-25 L/h) ±2% (25-2500 L/h)	±5% (15-25 L/h) ±2% (25-1600 L/h)
Power Consumption	8μA (standby) 200 μA (data transmission)	
Dynamic Range	160	80
Maximum Pressure	1.6 MPa	1.6 MPa
Input Voltage	3.1~3.7 V	3.1~3.7 V
Operating Temperature	0 C ~+50C	0 C ~+50C