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Ultrasonic Doppler Flowmeter

-  **Wide velocity range:** ± 0.01 to ± 5 m/s
-  **High accuracy:** up to $\pm 0.5\%$
-  **Ultra-low velocity detection:** as low as 0.01 m/s
-  **Precision measurement:** dual high-frequency transducers, low-phase-noise circuits, and integrated temperature compensation
-  **Compact & durable:** streamlined anti-tangle design, corrosion-resistant high-strength plastic
-  **Optional display unit available**

★ Highlights

The ultrasonic Doppler flowmeter sensor is a high-performance fixed flow measurement device. Its fundamental principle involves measuring water velocity and water level (cross-sectional area) to calculate the flow rate of the water in a given section.



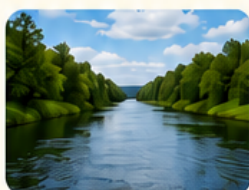
Applications



Box culverts, underground pipe networks, and drainage outlets for flow monitoring



Open channels, river courses, and pipelines for flow monitoring



**ACCURATE
RELIABLE
ROBUST**

Technical Parameter

Enclosure Dimensions	159×76×29mm
Flow Velocity Range	± 0.01 m/s ~ ± 5 m/s
Flow Rate Accuracy	$\pm 0.5\%$ FS, ± 2 mm/s
Flow Velocity Resolution	1 mm/s
Level Detection Range	0~10m
Level Accuracy	$\pm 1\%$ FS
Level Resolution	1mm
Low Measurable Water Level	2.5cm
Temperature Detection Range	-20~80°C
Input Voltage	7~32 VDC
Supply Current	40mA average, 500mA peak value (under a 12 VDC condition)
Cable Length	10m
IP Rating	IP68
Communication Interface	RS485 , MODBUS Protocol
Interface Protection	Static, Anti-connection, Anti-surge



HIGH ACCURACY



BUILT TO LAST



EASY INTEGRATION



ALL-WEATHER
PERFORMANCE

**Advanced Sensing.
Reliable Results.**