

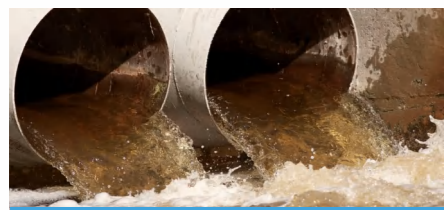
H1688-UR Radar-Ultrasonic Integrated Flow Meter

The H1688-UR Radar-Ultrasonic Integrated Flow Meter is a multi-functional flow meter integrating radar velocity measurement, radar level measurement, ultrasonic velocity measurement, pressure level measurement and water temperature sensor. It embeds models for different application scenarios, and the corresponding scenario algorithms can be selected according to different installation environments. Combining radar and ultrasonic technologies, it adopts non-contact radar measurement for non-full pipe conditions and automatically switches to contact ultrasonic measurement for full pipe conditions. It is mainly suitable for closed, humid, corrosive and submersible on-site environments such as drainage pipe networks and irrigation canal systems, and can easily handle flow monitoring in non-full pipe, full pipe, and switching scenarios between the two states.

Core Parameters

| | |
|--------------------------------------|--|
| Velocity Measurement Principle | Radar + Ultrasonic |
| Radar Velocity Range | 0.03m/s~20m/s |
| Radar Velocity Accuracy | ±0.01m/s or ±1% F.S. (whichever is larger) |
| Ultrasonic Velocity Range | 0.03m/s~10m/s |
| Ultrasonic Velocity Accuracy | ±0.01m/s or ±1% F.S. (whichever is larger) |
| Radar Velocity Measurement Frequency | 24GHz |
| Level Measurement Principle | Radar + Pressure (Gauge Pressure Type) |
| Level Measurement Accuracy | ±3mm or 0.1% F.S. (whichever is larger) |
| Radar Water Level Range | 0~10m |
| Pressure Water Level Range | 0~10m |

Application Scenarios



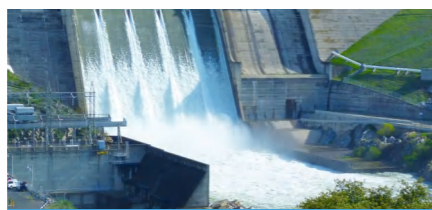
Urban Drainage Pipe Network Monitoring



River Water Level and Flow Monitoring



Irrigation Canal Water Measurement and Monitoring



Ecological Discharge Flow Measurement



Supports Top-mount Installation on Pipelines

Without long-term contact with water in the pipelines, greatly reducing the risk of being covered by garbage and debris.



Cross-section Velocity Measurement

The combination of radar and ultrasonic technologies covers flow velocities at different depths, which is closer to the actual cross-section velocity.



Built-in Gauge Pressure Sensor

Perfectly solves the errors of absolute pressure sensors caused by changes in different time periods, regions and weather conditions, making it extremely suitable for the measurement environment of drainage pipe networks.



Radar Level Sensor

Radar Flow Velocity Sensor

Ultrasonic Flow Velocity Sensor

H1688-UR

Water Temp Sensor

Pressure Level Sensor



Equipped with military-grade metal aviation connectors

