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RADAR FLOW METER

Non-contact flow and level monitoring with microwave technology

Advanced radar technology for accurate, reliable and maintenance-free measurement of flow velocity and water level in open channels and pipelines.

PRODUCT DESCRIPTION

- Based on microwave technology, it adopts non-contact measurement to obtain fluid velocity and level for flow calculation.
- Suitable for open channel flow monitoring in rivers, irrigation canals and sewage systems.
- Applied to monitoring and control in hydropower plants and wastewater treatment plants.
- Features: low power consumption, compact size, high reliability and easy maintenance.
- Measurement not affected by temperature, sediment, pollutants or floating debris.

HIGHLIGHTS

- ✓ Velocity measuring up to 20 m/s, accuracy up to ± 0.01 m/s
- ✓ Water level measuring range up to 40 m, accuracy up to ± 3 mm
- ✓ Low power, solar powered, easy installation and maintenance-free
- ✓ Dual direction flow measurement
- ✓ RS-232, RS-485 Modbus, analog 4–20 mA interfaces
- ✓ Excellent configuration software and monitoring system
- ✓ Instrument parameters remotely configurable via Bluetooth APP
- ✓ Waterproof grade IP68, perfect for outdoor installation

APPLICATIONS

- Early flood warning
- Monitoring of flow and irrigation channels
- Accurate discharge monitoring in rivers
- Flow monitoring in rainwater pipes
- Sewage and waste water discharge measurement



Name: Discharge Meter
Power: 7.3–24 VDC
SN: 2507601

TECHNICAL PARAMETER

RADAR WAVE VELOCITY SENSOR

Radar Power	10dBm
Radar Frequency	24GHz
Maximum Measurement Range	40m (related to flow conditions)
Velocity Measurement Range	0.03–20m/s
Velocity Measurement Accuracy	± 0.01 m/s; $\pm 2\%$ FS
Beam Angle	12°
Measurement Direction	Automatically identifies flow direction, built-in vertical angle correction

RADAR WATER LEVEL METER

Radar Power	10dBm
Radar Frequency	80GHz
Measurement Range	40m
Measurement Accuracy	± 3 mm, $\pm 0.05\%$ FS
Beam Angle	8°

OTHERS

Data Transmission Method	RS485(default)/RS232(optional)/SDI12(optional)/Modbus Protocol
Analog Output	4–20mA(optional)
Operating Temperature	–35°C–70°C
Storage Temperature	–40°C–70°C
Lightning Protection Rating	6KV
Protection Rating	IP68
Built-in Bluetooth Module	Used for local parameter setting, data viewing, etc.
Bluetooth Parameter Adjustment	Bluetooth Standard 4.2 or above, Transmission Power +8dBm, Reception Sensitivity: –96dBm at 0.1% BER
Operating Voltage	7–32VDC/5.5–32VDC(optional)
Operating Current(@DC12V)	Operating Mode: ≤ 120 mA Standby Mode: ≤ 1 mA

