FLOW SERIES

☑ ONE-STOP SOLUTION ☑ ONE-STOP SERVICE

RADAR FLOW METER

HUNAN MACSENSOR COMPANY LIMITED

Radar Flow Meter MRCM600 Series

PROFILE

MRCM600 series radar wave flow meter is an automatic flow meter based on microwave technology. It can measure the flow velocity and level of the fluid in a non-contact way. The sensor is used to monitor the flow velocity of open channels such as rivers, irrigation canals or sewage systems, commonly used for monitoring and control of hydroelectric plants and wastewater treatment plants.

The product features low power consumption, compact size, high reliability and easy maintenance; the measurement process is not affected by the temperature, sediment, river pollutants, floating on the surface or other factors.

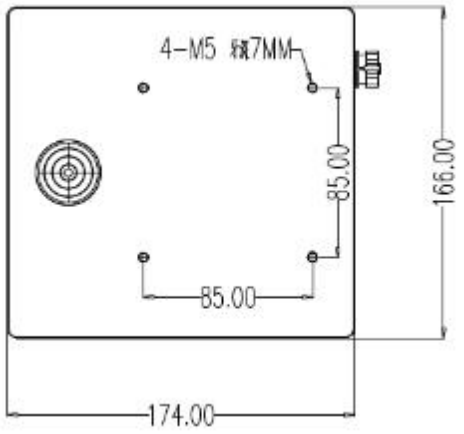


FEATURES

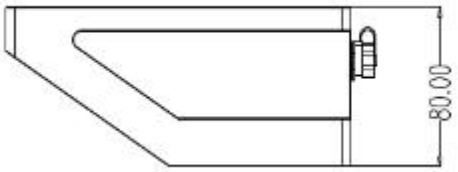
- Velocity measuring up to 20 m/s, accuracy up to ±0.01 m/s
- Water level measuring range up to 40 m, accuracy up to ±3 mm
- Low power consumption, can be powered by solar energy, easy to install and maintenance-free;
- Dual direction flow measurement RS232, RS485 Modbus, analog 4-20 mA interfaces
- Excellent configuration software and monitoring system
- Remote configuration of all instrument parameters via Bluetooth by mobile APP
- Waterproof grade IP68, perfect for outdoor installation

DIMENSIONS

Unit, mm









SPECIFICATIONS

Flow measurement system	
Measuring principle	Planar microstrip array antenna CW+FMCW
Working mode	Manual, automatic
Working temperature	-30 to +80°C
Working voltage	7-32 V DC
Working current	12 V DC input, working mode: ≤120mA; standby mode: <1 mA
Protection level	IP68
Communication	RS485 / RS232, 4-20mA, 4G, LoRa (Wireless optional)
Dimensions	174×166×80 (mm)
Weight	Less than 1.5kg
Radar wave speed sensor	
Radar frequency	24 GHz
Maximum range	0.1m to 40m (vertical distance)
Speed range	0.03~20m/s
Speed accuracy	±0.01m/s; ± 2%FS
Antenna angle	12°
Measurement direction	Automatically identify water flow direction, built-in vertical angle correction
Radar water level gauge	
Radar frequency	80 GHz
Measurement range	0.2 to 40 meters
Measurement accuracy	±3 mm; ± 0.05%FS
Antenna angle	8°
Wireless configuration	Bluetooth

HUNAN MACSENSOR COMPANY LIMITED
TEL: +86-731-89975645
FAX: +86-731-89975645
E-mail: info@macsensor.com
www.macsensor.com