

HRF600S FLOWMETER •DATASHEET•



HRF600S Series Radar Wave Flow Meter

Product Profile

HRF600S is a small radar flowmeter dedicated to flow monitoring of open channels in irrigation areas and underground pipe networks. The water velocity and water level are measured by microwave technology, and flow and cumulative flow at cross-sections are converted according to the built-in software model and algorithm.

24GHz and 80GHz microwaves are used to measure velocity and water level respectively. The measurement is not affected by ambient temperature, air pressure, water vapor on water surface, water pollutants and sediments. It features small size and low power consumption, especially suitable for applications with solar power and batteries group power supply and others with demanding power consumption.



Features

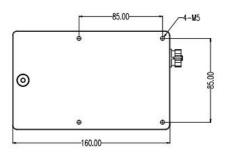
- 1. Adopt non-contact measurement, combined with cross-section parameters to calculate the flow rate, not affected by wind, temperature, haze, sediment, floating objects, etc. With a rainproof mode;
- 2. Suitable for a variety of measurement conditions, and measurement data of velocity, water level, and flow rate can be output;
- 3. Low power consumption, solar or battery power supply supported, easy to install and low maintenance;
- 4. Applicable to multiple cross-sections such as trapezoid, round, U-shaped, etc.; the parameter setting method of the cross-section is simple and convenient;
- 5. Software can be configured, the parameters can be configured according to actual needs to adapt to different conditions of use.

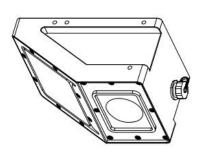


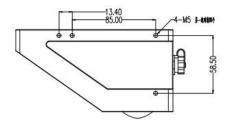
Applications

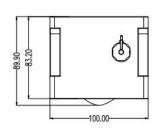
- 1. Velocity/ water level/flow measurement of open channels, irrigation canals, underground pipe networks, etc.
- 2. Auxiliary water treatment, such as urban water supply, sewage outlet monitoring, etc.
- 3. Flow calculation, water inlet and drainage flow monitoring, etc.

Dimensions

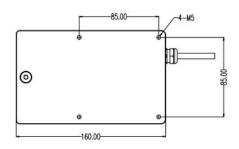


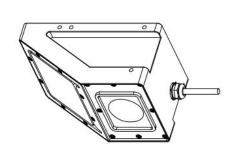


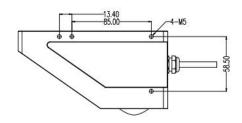


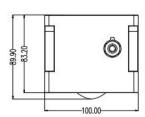


Plastic joint version. Unit, mm









Direct outlet version. Unit, mm



Specifications

Item	HRF600S/HRF600S-R
Versions	HRF600s(Standard version) HRF600s-R(RTU version): Support parameter adjustment by Bluetooth; wireless configuration and maintenance by mobile phone; equipment remote upgrade
Velocity Measurement Sy	ystem
Measuring Principle	Planar microstrip array antenna CW+FMCW
Operating Mode	Automatic, telemetry
Applicable environment	24-hour, rainy days
Operating temperature	-35~70℃
Operating Voltage	7~32VDC,5.5-32VDC(assorting)
Working current	12VDC input, working mode: ≤35mA standby mode: ≤1mA
Lightning protection	6KV
IP Rating	IP68
Radar Wave Velocity Met	er
Radar frequency	24GHz
Max measuring range	40m
Velocity range	0.03~20m/s
Velocity measurement accuracy	±0.01m/s;±2%F.S
Antenna angle	12°
Measuring direction	Automatic recognition of water flow direction, built-in vertical angle correction
Radar Water Level Senso	or
Radar frequency	80GHz
Measuring range	7 meters
Measurement accuracy	±2mm,±0.05%FS
Antenna angle	8°
Data transmission system	n
Data transmission	RS485(acquiesce), RS232(assorting), 4~20mA(assorting), SDI12(assorting), MODBUS(agreement)

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