

# Water Flow Sensor (Radar Type)

## Model: SEN-WFR

Microwave technology measures the water velocity and water level, according to the built-in soft Piece model and algorithm, convert the flow and cumulative flow of the cross-section. Use 24GHz and 60GHz microwaves for flow rate and water Position measurement, the measurement result is not affected by ambient temperature, air pressure, water The influence of surface water vapor, water pollutants and sediments; its sudden It is characterized by small size and low power consumption, especially suitable for solar energy Power supply and battery pack power supply and other applications with demanding power consumption requirements occasion.



## Applications

Determining the water level of Surface water, dams, lakes, pools, aquatic ponds

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Flow measurement system	
Measuring principle Radar Planar microstrip array antenna CW + PCR	Measuring principle Radar Planar microstrip array antenna CW + PCR
Applicable environment 24 hours, rainy day	Applicable environment 24 hours, rainy day
Operating temperature range -30°C~+80°C	Operating temperature range -30°C~+80°C
Operating Voltage 7-32V / 5.5-32V (optional) DC power supply	Operating Voltage 7-32V / 5.5-32V (optional) DC power supply
Relative humidity range 20%~80%	Relative humidity range 20%~80%
Storage temperature range -30°C~80°C	Storage temperature range -30°C~80°C
Working current 4VDC input, working mode: ≤300mA standby mode:	Working current 4VDC input, working mode: ≤300mA standby mode:
Lightning protection level 6KV	Lightning protection level 6KV
Physical dimension 160*100*80 (mm)	Physical dimension 160*100*80 (mm)
Weight 1KG	Weight 1KG
Protection level IP68	Protection level IP68

# Water Flow Sensor (Radar Type)



<b>Radar Flowrate sensor</b>	
Flowrate Measuring range 0.03~20m/s	Flowrate Measuring range 0.03~20m/s
Flowrate Measurement accuracy $\pm 0.01\text{m/s}$ ; $\pm 1\%$ FS	Flowrate Measurement accuracy $\pm 0.01\text{m/s}$ ; $\pm 1\%$ FS
Flowrate Radar frequency 24GHz	Flowrate Radar frequency 24GHz
Radio wave emission angle $12^\circ$	Radio wave emission angle $12^\circ$
Radio wave emission standard power 100mW	Radio wave emission standard power 100mW
Measuring direction	Automatic recognition of water flow direction, built-in vertical angle correction



# Water Flow Sensor (Radar Type)



Radar Water Level Gauge	
Water level Measuring accuracy $\pm 2\text{mm}$	Water level Measuring accuracy $\pm 2\text{mm}$
Water level Radar frequency 60GHz	Water level Radar frequency 60GHz
Radar power 10mW	Radar power 10mW
Antenna angle $8^\circ$	Antenna angle $8^\circ$

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**Represented by**

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