

# RADAR VELOCITY SENSOR

## YANTAI RVS



Radar Velocity Sensor RVS is a non-contact flow velocity detection device launched by YANTAI. It can be used to monitor the surface flow velocity of natural rivers, open channels, underground pipe networks and other water bodies and assist water treatment operations.

### Features

- ※ 24GHz CW planar microstrip radar, with phase-locked loop, high frequency stability
- ※ Non-contact measurement, low safety loss, less maintenance, not affected by sediment, etc.
- ※ All-weather work, not affected by temperature, strong anti-interference ability
- ※ The combination of measurement operation and sleep mode saves energy and reduces consumption
- ※ UV resistant material.
- ※ IP67 waterproof design, suitable for various outdoor environments
- ※ Small and compact appearance, super cost-effective
- ※ Work with data logger
- ※ Low consumption can work with solar energy
- ※ According for WMO NO:168

### Application

- ※ Flow rate monitoring of river courses, irrigation canals, flood control, etc.
- ※ Environmental protection sewage, water resources monitoring
- ※ Urban flood control, waterlogging and other monitoring
- ※ Rainstorm flood monitoring in mountainous areas



## Technical

<b>Range</b>	0.1 ~ 15m/s
<b>Accuracy</b>	±0.01m/s; ±1%FS
<b>Resolution</b>	0.01m/s
<b>effective distance</b>	0.5 ~ 30 m
<b>measure time</b>	3 ~ 240s
<b>Intervals</b>	1 ~ 18000s
<b>Measurement direction</b>	Two-way optional
<b>Automatic Angle Correction</b>	30°~ 60°
<b>Communication Interface</b>	RS-485/ RS-232 / 4-20mA current loop
<b>Interface Communication Parameters</b>	9600, 8, 1, None
<b>Protocol</b>	Custom ASCII/MODBUS
<b>working frequency</b>	24.000 ~ 24.250GHz adjustable
<b>Antenna style</b>	Planar Microstrip Array Antenna, 14°× 32°
<b>Operating Voltage</b>	+7~28V DC
<b>Working current</b>	Working mode, working current ≤ 120mA@12V Low power consumption (sleep) mode, working current ≤ 1mA@12V
<b>Operating temperature</b>	-40 ~60°C
<b>degree of protection</b>	IP67
<b>Dimensions (l×w×h)</b>	110×110×43 (mm)
<b>Shell material</b>	Front cover steel (white), rear cover aluminum alloy (black)

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