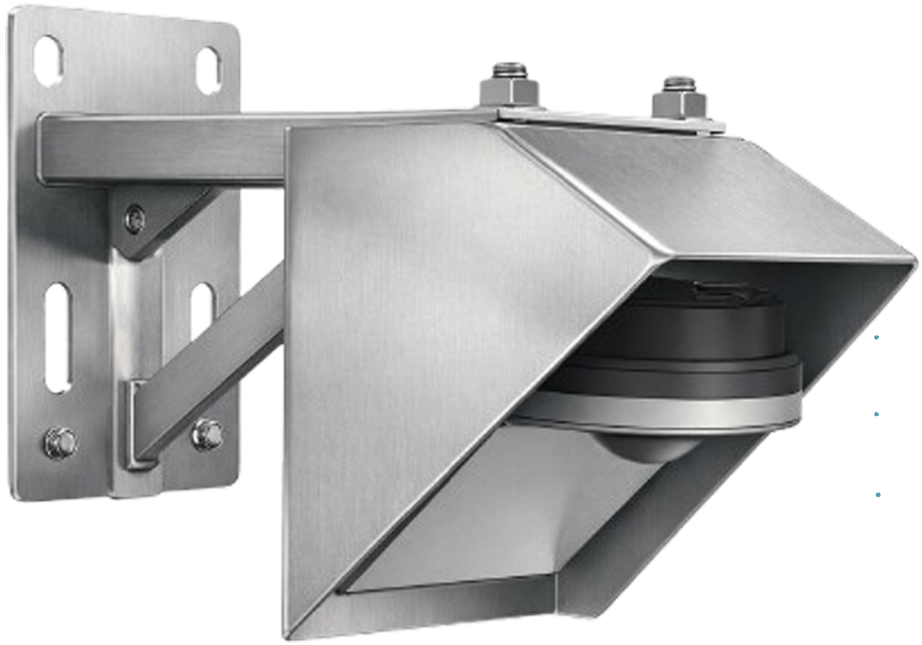


Overwiew

Kanagawa KRFradar flow meter is a device designed to measure water flow velocity and level using radar technology, and it calculates the actual discharge through an integration model. It enables continuous, real-time monitoring of water flow and is less susceptible to environmental interventions due to its non-contact measurement approach. The product comes with a bracket for secure mounting.

Features

- Non-contact measurement based on hybrid frequency band radar, simultaneous output of flow velocity, water level, and discharge without interference, minimal maintenance required, and not affected by sediment and other factors.
- Combing 80GHz level measurement technology and 24GHz velocity measurement technology, no Mutual interference need to be worried. With higher working frequency, the level measurement get smaller beamwidth, which suffer lower interfere from obstacles in real application.
- IP68 waterproof design, with internal gel potting, suitable for various outdoor environments and extreme weather conditions.
- Compact and small in size, offering an ultra-high cost-performance for customers.
- Incorporate protection against reverse polarity, lightning strikes, and over-voltage.

- Support Modbus-RTU Protocol for easy integration into systems. You can access both velocity and level radar to configure them separately.
- Integrated with cross section model, make it no need to worried about the installation location. Auto-compensation is made for more accuracy.
- Except for several preset regular cross section, Up to 20 Coordinate points description of the Irregular river cross section are also supported for discharge calculation.
- Support mobile phone Bluetooth debugging for convenient on-site maintenance by personnel.

Technical Specifications:

Velocity Range	0.1 m/s ~25m/s
Velocity Accuracy	1%
Angle Compensation	0°- 80°
Velocity Antenna 3dB Beamwidth	12°×25°
Blind Zone for Level	8cm
Max Range for Level	30m
Level Accuracy	±1mm
Level Antenna 3dB Beamwidth	6°
Maximum Radar Distance to Water	30m
Power Supply Range	9~30VDC
Operating Current	Operating Current 20ma@24V
Communication Interface	RS485(9600/115200), Bluetooth 5.2
Communication Protocol	Modbus (9600/115200)
Operating Temperature	-20-70℃
Housing Material	Aluminum alloy, PBT
Dimensions (mm)	155mm×79mm×94mm
IP Rating	IP68
Installation	2D rotated bracket