









SMR63 Radar Flow Velocity and Level Meter

RS485 Communication. All-in-One Compact Housing.

The Radar Flow Velocity and Level Meter is connected directly via RS485 communication interface, providing simple, reliable, cost-saving process data with remote monitoring, calibration, configuration and diagnostic capabilities. Housing in a robust IP68 proof enclosure, 1500 N tensile strength Kevlar reinforced cable, up to 1.2 km digital data transmission, the transmitter is ideally used in water/wastewater industry.

Advantages

- All-in-One Compact Housing, Built-in Transmitter and Sensors
- Robust IP68 Water Submersible Protection, Directly Installed in the Field, No Cabinet Required
- 80 GHz Superier Focusing Radar Beam, Beam Angle Less than 6° to Auoid Obstacles and Build up in Confined Spaces
- 120 dB Wide Dynamic Range to Accurately and Reliably Measure Poorly Reflective Liquides, Liquid down to Bottom level, Even with Surface Foam, Extremely Turbulent Flow, and Condensation on Antenna
- Built-in Temperature, Humidity Monitoring and Radar Level Module, Radar Velocity Module Failure Self Diagnosis Function
- Support 3 Axis Inclinometer to Monitor if Incorrect Installation or Position Changed due to Collide, Drop or Dismantle
- Advanced Intelligent Algorithm and Signal Processing Technology to Eliminate Echo Noise
- Surcharge Hydrostatic Level Sensor, Continue to Provide Uninterrupted Level Measurement
- Plug & Play, On-line Realtime Measurement
- Ultra Low Power Consumption, Ideal for Outdoor Applications
- 1500 N Tensile Strength Kevlar Reinforced Cable
- Surge Protection for Power and RS485 Communication
- RS485 Digital Communication, Minimize Cabling and Engineering Cost
- Standard Modbus RTU Protocol, Direct Connected with PLC, HMI
- Built-in tilt sensor, Auto Angle Compensation
- Not effected by Temperature, Rain, Snowfall, Turbidity, Suspended Solids, Vapor, Steam and Sand Storm
- Onboard Memory to Easily Calibrate and Configure Sensor at Lab and Distribute to Various Fields
- AQCFG Software Tool for Data Monitoring, Calibration, Configuration and Diagnosis

Applications

Stormwater, surface water, wastewater

Measurement Method

The sensor combines proven radar measurement technology with state-of-the-art spectral signal processing technology to provide a reliable and accurate way to measure velocity of flow.

Installation

Wall mounting, pole mounting





All performances are subject to the actual performance of the products sold by the company in the market, and are only applicable to the products of the company's brand sold by the company or its designated distributors. All the above data are from the internal test of Kaifa Water Resources, and the data may be biased due to different test environments. The manufacturer reserves the right to make changes to product performance, specifications, samples or designs without notice. All information has been carefully checked for accuracy. If there is any printing omission or there may be errors in translation, the company will not be responsible for the consequences. www.aquas.com.tw

Specifications

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Data Resolution 16 bits (0.001% FS)	General	
Surge Protection		
Prove 12 VDC, 145 mA Protection Polarity, Overload, Short circuit Safety CE, PCC Radar Flow Velocity Frequency 24 GHz, 280 GHz (optional) Radar angle Velocity CE, PCC Radar angle Velocity Ve		
Polarity, Overload, Short circuit Safety CE, FCC Safety CE, FCC Safety CE, FCC Safety Safety CE, FCC Safety		
Safety CE, FCC Radar Flow Velocity Frequency 24 CHz; 80 GHz (optional) Radar Flow Velocity Frequency 24 CHz; 80 GHz (optional) Radar angle 12" (Azimuth), 24" (Elevation) Radar angle 0.02~30 m Resourement Distance 0.02~30 m Resourement Range 0.02~30 m Resource 1% of reading Resource 1% of reading Resource 1% of reading Resource 1% of reading 1 mm/		,
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Max. Measurement Distance 0.02-15 m/s, bi-directional Accuracy ±1% of reading Resolution 1 mm Operating Fressure -1-3 kg/f/m² Operating Temperature -40-85 °C Response Time 10 sec Calibration Interval M12X1.5 plug fixed cable ; M12 connector, 5-pin Connection Typical 12 months Cable Keviar reinforced, UV resistant PUR cable, 1500N tensile strength Cable Keviar reinforced, UV resistant PUR cable, 1500N tensile strength Commention 180(W) K200(H) mm (includes hydrostatic level sensor) Weight transmitter approx. 12 kg (inchydrostatic level sensor), 1.5 kg (includes hydrostatic level sensor) ; rable: 80 g/m Measurement Method Radar Frequency 80 GHz Accuracy ±1 mm Resolution 0.1 mm Protection IP68 Measurement Range 0-10 m Accuracy ±1 mm Resolution 0.0 lms; Fs Resolution 0.0 lms; Fs Resolution 0.0 lms; Fs Resolution 0.0 lms; Fs		
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Accuracy 21% of reading Resolution 1 mm/s Min. Wave Height 1 mm Operating Pressure 40-85 °C Response Time 10 secs Calibration Interval 7 Typical 12 months Housing Material POM; PVDF (optional) Canles Marchael Response Time 10 secs Calibration Interval 7 Typical 12 months Housing Material POM; PVDF (optional) Canle Keviar reinforced, UV resistant PUR cable, 1500N tensile strength Housing Material POM; PVDF (optional) Cable Keviar reinforced, UV resistant PUR cable, 1500N tensile strength Tomerisons 1080W; Miscleth mm (on hydrostatic level sensor); 180(W)X200(H) mm (includes hydrostatic level sensor) Weight transmitter: approx. 1.2 Kg (no hydrostatic level sensor); 1.5 Kg (includes hydrostatic level sensor); cable: 80 g/m Measurement Method Radar Frequency 80 GHz Readar Level 80 GHz Resolution 0-15 m (SMR63-3); 0-30 m (SMR63-2) 1 mm Resolution 0-11 mm Protection 1668 Hydrostatic Level Measurement Range 0-10 m Accuracy ±1 mm Resolution 0.01% FS Resolution 0.01 TC Resolution 0.01°C Resolu		
Name		
Min. Wave Height 1 mm Operating Pressure -1-3 kgf/cm² Operating Temperature -40-85 °C Response Time -40-85 °C In secs	Accuracy	
-3 kgf/cm² -3	Resolution	1mm/s
Operating Temperature -40-85 **C	Min. Wave Height	
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Calibration Interval MIZXI. 5 plug fixed cable ; M12 connector, 5-pin Connection Typical 12 months Connection Typical 12 months POM; PVDF (optional) Cable Kevlar reinforced, UV resistant PUR cable, ISONN tensile strength Dimensions I80(WI)XI62(H) mm (ino hydrostatic level sensor) ; 180(WI)X20(H) mm (includes hydrostatic level sensor) transmitter: approx. 1.2 Kg (no hydrostatic level sensor), 1.5 Kg (includes hydrostatic level sensor); cable: 80 g/m Radar Level Measurement Method Radar Rerequency 80 GHz Radar angle 6' Measurement Range 0-15 m (SMR63-3); 0-30 m (SMR63-2) Accuracy ± 1 mm Resolution 0.1 mm Protection IP68 Hydrostatic Level Measurement Range 0-10 m Accuracy ±0.196 FS (SS316L); ±0.25% FS (Titanium) Resolution 0.01% FS Resolution 0.01% FS Stability (annual) ±0.0% FS Stability (annual) ±0.0% FS Stability (annual) ±0.10% FS Stability (annual) Typical 12 months Temperature Sensor Pti000 Measurement Range 3-30-75 °C Accuracy ±0.11°C Resolution 0.01°C Resolution 0.01°C Resolution Heasurement Range 0-180°, XYZ 3 axes Accuracy ±10°C Accuracy ±10°C Accuracy ±0.1°C Resolution Measurement Range 0-180°, XYZ 3 axes Accuracy ±10°C	Operating Temperature	
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Accuracy ±1 mm Resolution 0.1 mm Protection IP68 Hydrostatic Level Measurement Range 0~10 m Accuracy ±0.1% FS (SS316L); ±0.25% FS (Titanium) Resolution 0.01% FS Repeatability ±0.025% FS Stability (annual) ±0.1% FS Safety Load 3 X measurement range Rupture >4 X measurement range Calibration Interval Typical 12 months Temperature Sensor Pt1000 Measurement Range -30~75 °C Accuracy ±0.1 °C Resolution 0.01 °C Repeatability 0.1 °C Inclinometer Module Measurement range 0~180°, XYZ 3 axes Accuracy ±10° Measurement range 0~180°, XYZ 3 axes Accuracy ±10°	Radar angle	6°
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\$1	Resolution	0.01% FS
Safety Load 3 X measurement range	Repeatability	±0.025% FS
Safety Load 3 X measurement range	Stability (annual)	±0.1% FS
Rupture >4 X measurement range Calibration Interval Typical 12 months Temperature Sensor Pt1000 Measurement Range -30~75 °C Accuracy ± 0.1 °C Resolution 0.01 °C Repeatability 0.1 °C Inclinometer Module Messurement range 0~180°, XYZ 3 axes Accuracy ± 10°	Safety Load	
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en eq	Accuracy	

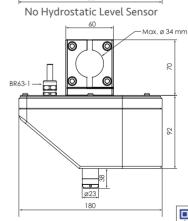
SMR63 - __- __- 3 - 0 - 0 - 0 - __-Codes Measurement Range Radar Velocity (0.02~15 ms) Radar Velocity (0.02~15 m/s)+Radar Level (0~30 m) Radar Velocity (0.02~15 m/s)+Radar Level (0~15 m) Sensor Radar Velocity Radar Velocity+Radar Level Radar Velocity+Radar Level+Hydrostatic Level Radar Velocity+Radar Level+Hydrostatic Level + Temperature Cable Length (m) 10 -010 Custom 001~999 Cable Type PUR -Housing POM __ Wiper None **Explosive Proof** Wire Connection Bare Wire M12 Connector **Analog Output**

BR63-1

Max. ø 34 mm

2

25



Includes Hydrostatic Level Sensor

■ Inclinometer Module

Installation

4~20 mA Optional

■ BR63-1 Mounting bracket

Power

■ ADP02 AC/DC Converter (110/220 VAC to 12 VDC)

■ PWB01 AC Power Supply Box



<u>Cable</u>



Software AQCFG Configuration and Calibration Software



Accurate. Reliable. Interagent.

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