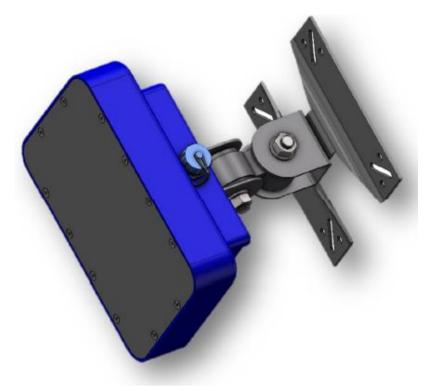
TEKSENS

Planar Array Antenna Surface Velocity Radar

Characteristics

- Non-contact surface velocity radar / hydrological measurement products, fully enclosed IP68 protection design with fixed installationusage type.
- The use of planar array antenna design with field adaptability, Eliminate field ecological nterference, maintenance-free Identify data influenced by sensor movement (e.g., wind, traffic) using Meta data from integrated vibration and tilt sensors.



Applications

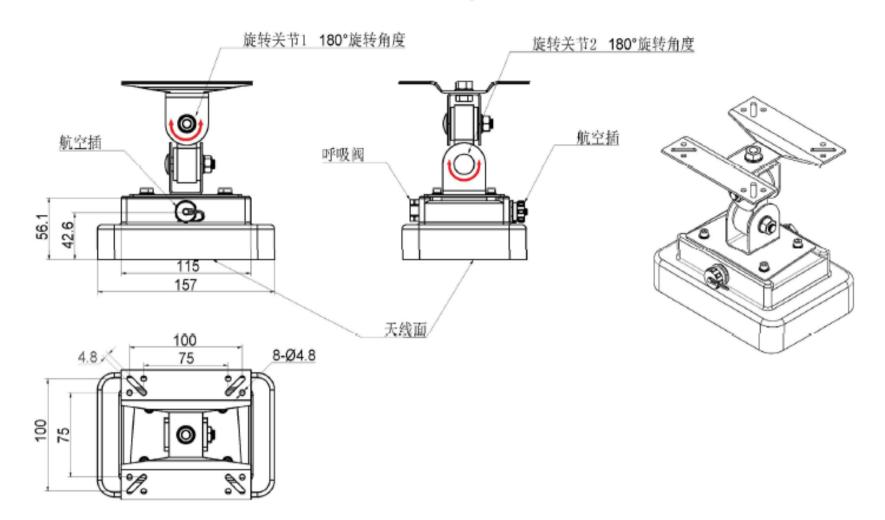
- The ASL-2021-SVR is a simple, non-contact, compact surface water speed radar sensor for measuring open channel flow.
- Designed for flow measurements in open channels and rivers where reliable velocity data is required continuously during floods or high concentrations of suspended sediment.
- The sensor is mounted above the water surface, using flexible brackets for vertical or horizontal mounting away from floating debris. Speed measurements and sensor status information from the integrated vibration and tilt sensors are available via RS-485/Modbus. It is also compatible with AQUAflow software for system calibration.

Radar Emission Frequency 25.3GHz 0.10 ~ 15 m/s, Detection distance 1 ~ 50 m **Measurement Range Measurement Accuracy** ±2% of measured value / Resolution 0,1 mm/s Effective data output time for power boot <5s, Measurement data update cycle <1.5s Measuring Response Time 12° Azimuth / 24° Elevation **Radar Opening Angle Dimensions** 158mm x 100mm x 57 mm (H) **Electrical Connection** M12/ 4 wires of watertight aerial plug, AWG≤0.785/18 Φ80mm Planar array antenna, 25dB (with POM antenna cover) Antenna Type RS-485 (Option: Relay/4-20mA/SDI-12/Wi-Fi /RTU/Bluetooth/IIoT) Signal output **Communication protocol** RS485 MODBUS (include attitude tilt angle & ambient temperature, measurement flow

Specifications

	rate value output)
Ambient Temperature	-4085 °C
Relative Humidity	≤95%RH
Environmental Pressure	860 ~ 1060 mbar (12,47 ~ 15,37psi)
Power Supply	9.0~38VDC, 4 wires, < 120mW
Diagnostic Method	Remote PC / mobile Application Software: AQUAflow
Shell Material	Anodized Aluminum + POM or PTFE (Antenna cover)
Mounting Method	M6 Universal Joint Bracket, Rotation range of swivel mount, Lateral axis:
	±90°,Longitudinal axis: ±90°
Ratings	IP68
Standard Lead-time	4 to 5 weeks (Non-customized products)

ASL-2021-SVR Dimensions;





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