FARSIGHT™

Technical Specification:

Providing the highest confidence in challenging velocity measurement applications while maintaining maximum performance. With excellent low-velocity capabilities, support for longer distances from sensor to target, built-in tilt compensation, and automatic rainfall interference discriminations. FarSight is the right choice for applications in water and wastewater, environmental, as well as industrial. Tried and tested robustness is built in as standard.

GENERAL

Measurement Type:	Non-contact velocity

PHYSICAL

Dimensions:	Nominal 195 mm H x 145 mm D (7.7 in x 5.7 in)
Weight:	Nominal 1.2 kg (2.6 lbs)
Frequency:	24 GHz
Sensor Body Material:	PVDF main body, Valox 357 on cap and submersion shield
Mounting Connection:	Rear: 1-inch BSP or NPT thread with BReez™ adapter. Optional mounting bracket available.
Cable:	5-core screened
Cable Lengths:	Standard: 10 m, 20 m, or 30 m (32.8 ft, 65.6 ft, or 98.4 ft) Optional: 50 m or 100 m (164 ft or 328 ft)
Maximum Separation:	Up to 500 m (1,640 ft) from FarSight to controller or RTU/logger

PERFORMANCE

Operational Range:	Up to vertical height of 15 m (49 ft)
Technology:	K-Band (ISM) Radar
Beam Angle:	10° inclusive
Velocity Range:	±0.2 m/s to ±6 m/s (±0.66 ft/s to ±19.7 ft/s) in most applications. Performance may vary depending on application. Ideal surface condition would include visually observable ripples.
Accuracy:	The greater of ±1.5% or 0.05 m/s (0.16 ft/s)
Max. Width of Measurement Area Per Sensor:	Up to 3 m (9.8 ft)
Optimal Installation Angle:	30° to 50° (from horizontal) with built-in electronic tilt compensation

ENVIRONMENTAL

Enclosure Protection:	IP68 / NEMA 6P
Vibration Protection:	Fully Potted
Ambient Operating Temperature:	-40°C to +80°C (-40°F to +176°F)
Humidity:	0 to 99% (non-condensing)
Process Connection Temperature:	-40°C to +80°C (-40°F to +176°F)

OUTPUT / COMMUNICATION

Connection:	RS485
Protocol:	Modbus RTU
Compatibility with Pulsar Measurement Controllers:	Integrates with FlowCERT, Ultimate Controller, and Flow Monitor
Compatibility with Third-Party RTUs/Loggers:	Any Modbus RTU via RS485 RTU or Logger

APPROVALS

Regulatory Approvals:	FCC, RED, CE, UKCA
WEEE and ROHS:	Compliant

PROGRAMMING

PC Programming:	Via RS485 Modbus RTU, including free Pulsar Measurement MicroFlow PC Software
Programming Security:	Support for passcode protection
Programmed Data Integrity:	Configuration stored in non-volatile memory
PC Setup & Monitoring Software:	MicroFlow/FarSight PC version 3.1 or newer - Compatible with Windows 10 & 11

POWER SUPPLY

Operating Voltage:	10 - 28 V DC
Power Consumption:	0.42 W
Power Conservation:	Support for complete power-down between measurements. Required power-on duration depends on application and field programming of FarSight. See manual for details.

ACCESSORIES

BReez™ Adapter:	Increases ease of use, supplied as standard and greatly reduces installation time

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