

Ultra-Low-Power Ultrasonic Wind Speed & Direction Sensor | Wired Mini Anemometer

ProSense product information. Compiled from the published product listing.

Product reference	9a6a29d8
Catalogue brand	PSI
Document reference	PSDS-9A6A29D8

Product overview

A compact ultrasonic wind speed and wind direction sensor engineered for ultra-low power consumption and continuous outdoor monitoring. Solid-state design with industrial outputs for weather stations, agriculture, infrastructure, and smart city deployments.

Listed specifications

Measured Parameters	Wind Speed; Wind Direction
Wind Speed	See the listed details below
Range	0.5 to 45 m/s
Wind Direction	See the listed details below
Range	0 to 359°
Measurement Technology	Ultrasonic time-of-flight
Power Supply	3-5 VDC
Power Consumption	Ultra-low (sub-milliamp typical at 5 V, 1 Hz sampling)
Outputs (configurable)	4-20 mA (analog); RS485; UART / TTL; I²C; SDI-12; Modbus
Installation	Fixed wired installation; Mast, pole, or structure mounting
Construction	Compact, weather-resistant housing; Optimised acoustic design for rain performance

Typical applications

Weather stations and micro-climate monitoring; Precision agriculture (spraying, irrigation, fertilising); Construction sites, scaffolding, and cranes; Smart cities and environmental networks; Wildfire and safety monitoring; Marine and sailing applications; Scientific research and temporary field deployments

Selection and use

Specifications and available functions depend on the selected model and options. This sheet summarizes catalogue information; it does not replace manufacturer installation, wiring, operation or safety instructions. Confirm exact ratings, compatibility and required certifications with ProSense before installation.

Source product listing

View current product details and options

<https://www.prosenseinstruments.com.au/product-page/cmi1051-calypto-ultra-low-power-ultrasonic-wired-mini-wind-sensor-anemometer-win>