WIND MEASUREMENT / DATA SHEET

SS102H-03A
Anti-Freezing Wind Direction Sensor

Heated wind direction monitoring for freezing rain, snow, frost and other severe weather conditions.

Overview

- SS102H-03A is a heated wind speed and direction sensor developed for harsh natural environments.
- The source page describes a built-in analog circuit with resistance to radio-frequency, electromagnetic interference and lightning surge.
- Self-heating deicing helps prevent freezing during ultra-low temperatures, freezing rain, snow and frost.



Sensor type **Heated wind direction**	**Heating** **Self-heating**	**EMI** **RF / EMC resistant**	**Use** **Harsh weather**
Seawater **Corrosion resistant**	**Seismic** **Good performance**	**High wind** **Blade stability**	**Environment** **Freezing**

Key Advantages

- Self-heating deicing function helps prevent freezing.
- Anti-high-frequency electromagnetic interference.
- Anti-seawater corrosion and good seismic performance.
- Rotating blades are designed not to deform at high wind speeds.
- Built-in analog circuit with lightning-surge resistance stated on the source page.
- The source page identifies operation across severe outdoor environments.

Application Scenarios

- Deserts and mountains.
- Coastal areas and ocean environments.
- High-altitude wind power installations.
- Ultra-low-temperature, freezing-rain, snow and frost conditions.

Measurement Principle

SS102H-03A is described as a heated wind speed and direction sensor. The source page states that its built-in analog circuit outputs an electrical signal linearly related to ambient horizontal wind speed and supports wind direction measurement under harsh climatic conditions.

Technical Specifications

Item	Specification
Product type	Heated wind speed and direction sensor
Signal path described on page	Built-in analog circuit; electrical output linearly related to ambient horizontal wind speed

Item	Specification
Anti-freezing function	Self-heating deicing to prevent freezing
Environmental capability	Desert, mountain, coastal, ocean, high-altitude, ultra-low-temperature, freezing-rain, snow and frost conditions
Rotating blades	Designed not to deform at high wind speeds
EMI resistance	Anti-high-frequency electromagnetic interference
Seawater resistance	Anti-seawater corrosion
Seismic performance	Good seismic performance
Technical parameter table	Presented as an image on the source webpage; numeric values are not exposed in accessible text

The source webpage presents its numerical technical parameters as an image; accessible text does not expose the values. Confirm the final technical schedule, output, power and wiring configuration before ordering.

Output / Communication

Output Options

- The source page describes an electrical output linearly related to ambient horizontal wind speed.
- The numeric output type and pin-level signal definition are shown only in unavailable/embedded source imagery; confirm the ordered configuration.

Protection and Electrical Notes

- Self-heating deicing is intended to prevent freezing.
- The source page states anti-high-frequency EMI and lightning-surge resistance.
- Confirm the actual power, output and wiring configuration before connection.

Product Selection / Ordering Information

Selection	Configuration
Base model	SS102H-03A - Anti-Freezing Wind Direction Sensor
Heating function	Self-heating deicing to prevent freezing
Signal description	Electrical output linearly related to ambient horizontal wind speed
Environmental use	Desert, mountain, coastal, ocean, high-altitude and freezing conditions
Protection features	Anti-high-frequency EMI, anti-seawater corrosion, lightning-surge resistance and good seismic performance

The source webpage presents numerical technical and dimensional parameters as images; accessible text does not expose the values. Confirm the final technical schedule, output, power, wiring and mounting configuration before ordering.

CONTACT / SUPPORT

SpeSense Technologies Inc.
Add: No. 9 Yuhe Road, Guitang Subdistrict, Yuhua District, Changsha City
Tel: +86-15386478166
Email: info@spesense.com
Web: www.spesense.com

WHATSAPP WECHAT
WhatsApp / WeChat