WIND MONITORING / DATA SHEET

SS105-01
Digital Wind Speed Control Alarm

Wind speed display and over-limit alarm control for industrial monitoring.

Overview

- SS105-01 is a microcontroller-based digital wind speed controller for instantaneous and average wind speed measurement.
- The display, control buttons and over-limit alarm functions support convenient on-site setting and monitoring.
- Anti-strong-RF and anti-electromagnetic-interference protection circuits support reliable display operation.
- The controller is intended for wind speed monitoring of large machinery, factories, power plants, ports, mines and wind turbines.



Range	Resolution	Input	Communication
0-50 m/s	0.1 m/s	0-5/10 V; 4-20 mA	RS485
Alarm	**Analog output**	**Temperature**	**Casing**
Early warning + alarm	4-20 mA	-20 to +60 °C	ABS

Key Advantages

- Microcontroller-based digital wind speed display and control.
- Instantaneous and average wind speed monitoring.
- On-site buttons for parameter setting and over-limit alarm control.
- Early warning and alarm relay outputs with buzzer prompt.
- Anti-RF and anti-EMI protection circuits.

Application Scenarios

- Large mechanical equipment and engineering machinery.
- Factories, power plants, ports and mines.
- Wind turbines and industrial wind monitoring.
- Outdoor or process areas requiring over-limit wind alarms.

Measurement Principle

The controller receives a wind speed signal from the connected sensor, displays the measured value and supports instantaneous and average wind speed monitoring. User-set limits drive the early-warning and alarm relay outputs; the source document also specifies a buzzer prompt output. Optional signal and communication configurations are listed in the technical tables.

Technical Specifications

Item	Specification
Power supply voltage (optional)	AC 220 V / 110 V / 48 V; DC 12-30 VDC
External sensor power supply	24 VDC; external DC supply according to the selected power-supply voltage
Measurement display range	Wind speed: 0-50 m/s
Display resolution	Wind speed: 0.1 m/s

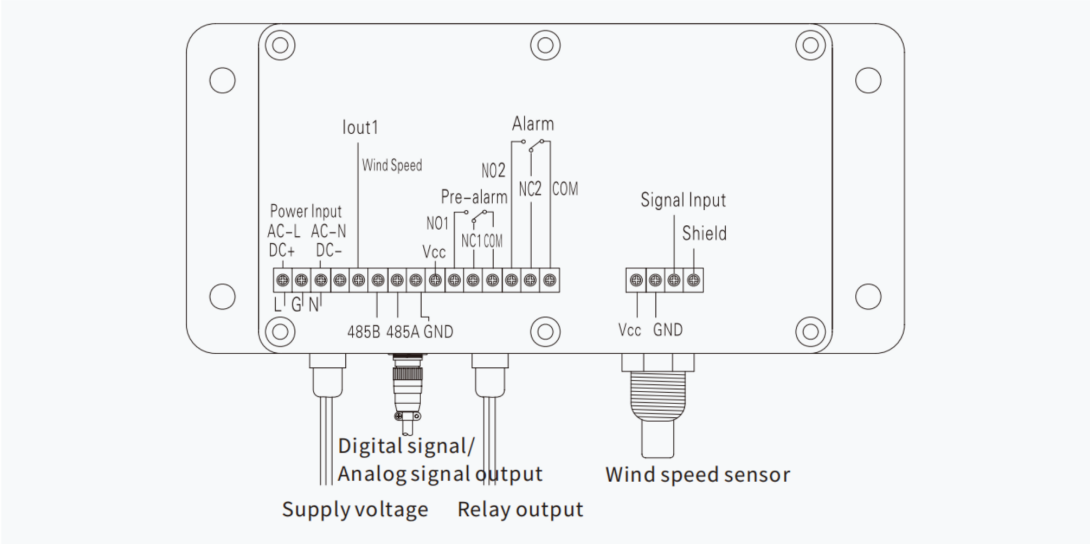
Item	Specification
Display error	Wind speed: 3% FS
Signal input (optional)	Wind speed voltage: 0-5/10 VDC; current: 4-20 mA; pulse
Wind speed alarm output	Relay contact capacity: 220 VAC / 10 A; early warning and alarm relays; buzzer prompt output
Operating temperature	-20 to +60 °C
Casing material	ABS
Analog signal output	Iout1, Iout2: 4-20 mA current-loop output; load less than 500 ohms
Communication method	RS485 digital communication output

Signal options, power-supply options and alarm details are reproduced from the supplied source datasheet. Confirm the selected configuration before ordering.

Output and Communication

Interface	Source-listed configuration
Signal input	0-5/10 VDC, 4-20 mA or pulse; optional
Analog output	Iout1, Iout2: 4-20 mA current loop; load less than 500 ohms
Alarm output	Early warning and alarm relay contacts; 220 VAC / 10 A contact capacity
Digital communication	RS485 digital communication output
External sensor supply	24 VDC

The source wiring diagram identifies AC/DC power input, digital/analog output, relay output and wind speed sensor input. The pinout table below preserves the source definitions.

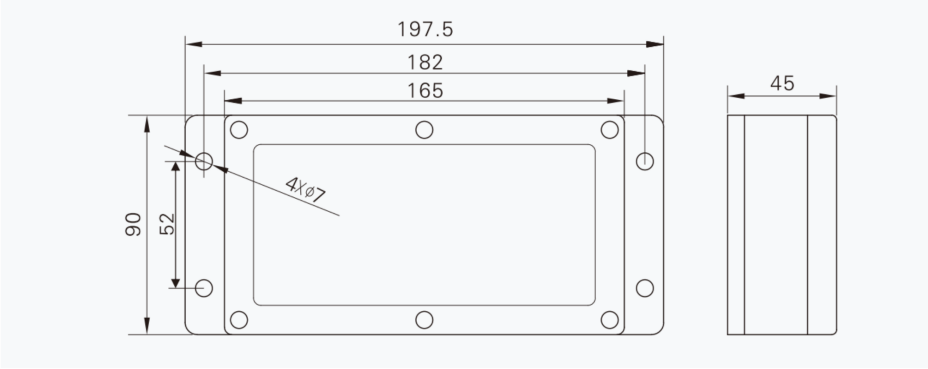


Connection	Pin	Line color	Definition
Wind speed sensor	1	Brown	Vcc (power positive)
Wind speed sensor	2	White	Signal input
Wind speed sensor	3	Blue	GND (power negative)

Connection	Pin	Line color	Definition
Wind speed sensor	4	Bare	PE (ground)
Signal output	1	Green	485A
Signal output	2	Red	Iout1 (wind speed)
Signal output	3	Black	GND
Signal output	4	Space	/
Signal output	5	White	485B

Mechanical Dimensions

The supplied drawing specifies a 197.5 mm overall width, 90 mm overall height, 182 mm and 165 mm mounting spans, 52 mm vertical hole spacing, 45 mm depth and four Ø7 mounting holes. Units are millimeters.



Product Selection

Selection	Configuration
Base model	SS105-01 - Digital Wind Speed Control Alarm
Power and sensor supply	AC 220 V / 110 V / 48 V; DC 12-30 VDC; external sensor supply 24 VDC
Signal input	0-5/10 VDC, 4-20 mA or pulse
Alarm and analog output	Early warning and alarm relay; 4-20 mA output optional
Communication	RS485 optional

Specify SS105-01 together with the selected power supply, input signal, communication and output configuration.

CONTACT / SUPPORT

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