

WT 105 Medium Programmable Wind Noise Source User Manual

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1. Hardware Description

- 1. Power Supply & Communication Wiring
 - a) 220V AC Equipment Power Supply
 - b) WT105 can be connected through DB9 Serial Cable



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Fig 1.1

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2. Operating Instructions

1. Touchscreen Operation

Operation Interface Introduction:



1 Device parameter display window

2 Wind speed mode selection menu bar, click on it and the following menu pops up



Fig 2.2

1) Steady-state: The output airflow wind speed of the device is stable to the set wind speed.

2) Random fluctuation: Based on the set wind speed, random fluctuation of a specific range are carried out, and the maximum change is within 1m/s.

3) Circular fluctuation: Based on the set wind speed, according to Positive Deviation Fluctuation
- Set Wind Speed - Negative Deviation Fluctuation - Set Regular Cyclic Fluctuation of Wind
Speed with a 1-second interval.

4) Custom fluctuation: Based on setting the wind speed, edit the fluctuation law in the following interface.







3 Adjust button for setting wind speed.

④Fan stop/start control.

⑤Calibrate the wind speed. After placing the anemometer in the position closest to the air outlet, press the button to re-calibrate the wind speed setting.

⁽⁶⁾Display whether the wind speed calibration has been performed.

2. Program Controlled Operation

DB9 Interface Description

The program control operation is performed by connecting to the DB9 interface of the WT105. The serial communication parameters are as follows:

Baud Rate	9600
Data Bits	8
Parity	None
Stop Bits	1.0
Flow Control	None

Program Control Instruction List

Note: '\r\n' means carriage return and line feed, Hex is 0D0A

Name	Send	Feedback	Remarks	
Fan Running	>SET_MOTION_RUN\r\n	Success: OK\r\n		
Fan Stopped	>SET_MOTION_STOP\r\n	Success: OK\r\n		
Read Wind Speed	>GET_SPEED\r\n\r\n	Current Wind Speed: 3.000000m/s\r\n		
Set Wind Speed	>SET_SPEED:3.0\r\n\r\n	Success: OK\r\n	Wind speed: set within the range, Accuracy is 1.0	
Read Custom Fluctuation Data	>GET_WIND_DATA\r\n	Success: OK\r\n[0][1][2]-[9]	[0]-[9] is the hex decimal of the value of the custom fluctuation, the range of the fluctuation value is 0- 0x14, in Value bit 0x0a	
Write Custom Fluctuation Data	>SET_WIND_DATA\r\n	Success: OK\r\n	Send >SET_WIND_DATA After returning "success", enter the write data mode, send [0]-[9] as 10 data, the data range is 0- 0x14, reply "Success" ends	
	[0][1][2]-[9]\r\n (Hex)	Success: OK\r\n		



Set the Wind Speed	>SET_WIND_1 \r\n	Success: OK\r\n	
Mode to Steady			
State			
Set the fan speed	>SET_WIND_2 \r\n	Success: OK\r\n	
mode to			
Random fluctuation			
Set the fan speed	>SET_WIND_3 \r\n	Success: OK\r\n	
mode to			
Cyclic fluctuation			
Set the fan speed	>SET_WIND_4 \r\n	Success: OK\r\n	
mode to			
Custom volatility			