

## SY0296

# Solar powered NB-IOT data remote transmission to small meteorological stations

## User Manual

File Version: V23.6.29



SY0296 using the standard ,easy access to PLC, DCS and other instruments or systems for

monitoring PM2.5, PM10, wind speed, conductivity, temperature, humidity, carbon dioxide, atmospheric pressure, rainfall state quantities. The internal use of high-precision sensing core and related devices to ensure high reliability and excellent long-term stability, can be customized RS232, RS485, CAN, 4-20mA, DC0~5V\10V, ZIGBEE, Lora, WIFI, GPRS and other output methods.

### Technical Parameters

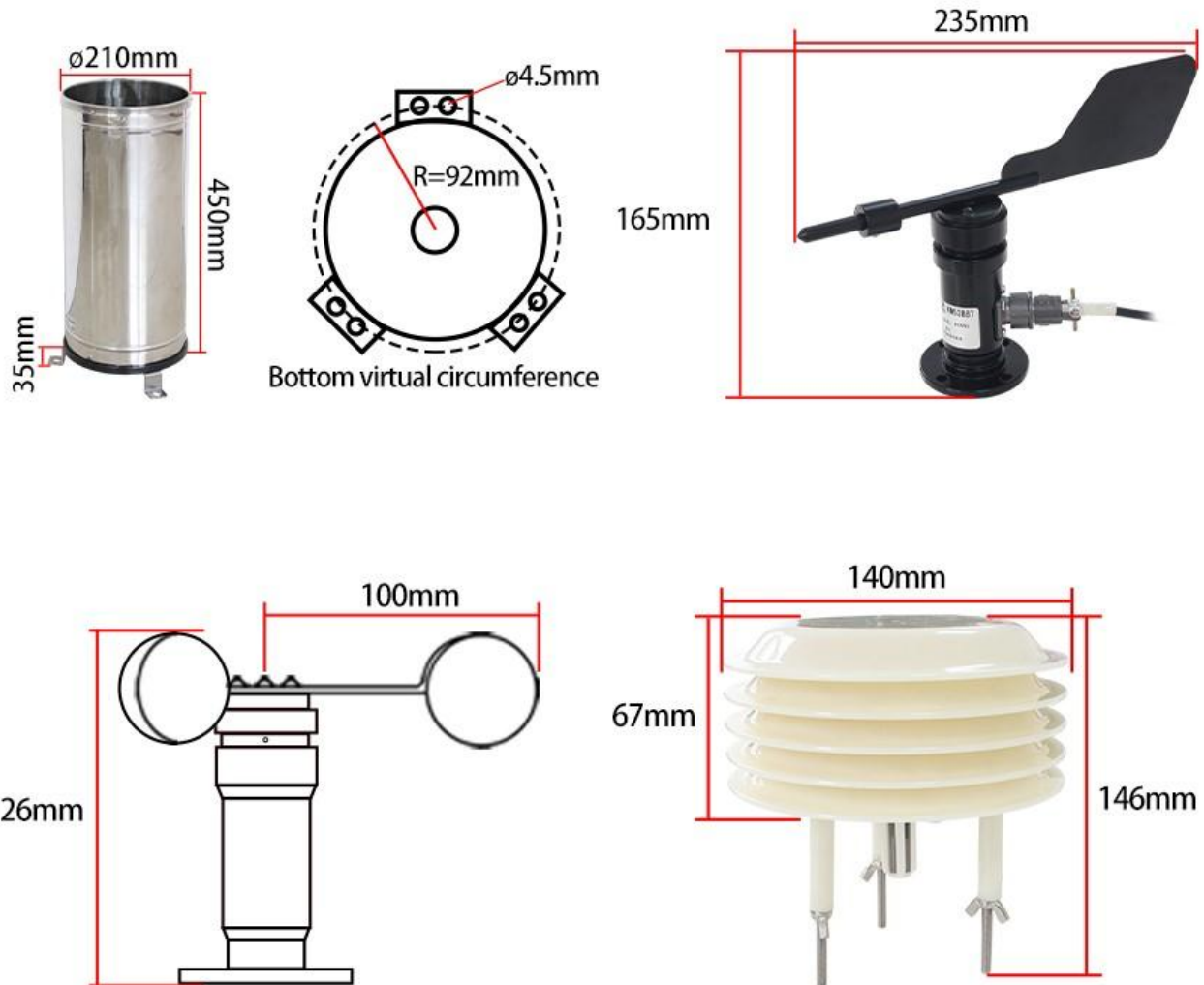
Technical parameter	Parameter value
Brand	SONBEST
PM2.5 range	0~999ug/m3
PM2.5 accuracy	±15% or ±10ug/m3 max @25℃
PM10 range	0~999ug/m3
PM10 accuracy	±15% or ±35ug/m3 max @25℃
Wind speed range	0~30m/s
Start wind	0.2m/s
Wind speed accuracy	±3%
Shell material	aluminum
Wind direction range	0~360°
Wind direction resolution	22.5°
Temperature measuring range	-30℃~80℃
Temperature measuring accuracy	±0.5℃ @25℃
CO2 range	0~5000ppm
CO2 accuracy	±100ppm
Atmospheric pressure range	30~110kpa
Atmospheric pressure accuracy	±0.5%
Rainfall range	0.01mm~4mm/min
Rainfall Resolution	0.01mm~4mm/min
Rain inlet size	φ200mm
Rainfall Sharp edge	40°~45
Rainfall accuracy	±3%
Running temperature	-30~85℃

### Product Selection

Product Design RS485, DC12-24V Multiple output methods, the products are divided into the following models depending on the output method.

Product model	output method
SY0296B	RS485 总线

### Product Size



# USE OF CLOUD PLATFORM

# APPLE MOBILE APP SEARCH "KLINK"

WEBSITE LOGIN: [HTTP://WWW.KLINK.CN/MEMBER/](http://www.klink.cn/member/)

PLEASE CONTACT THE BUSINESS PERSONNEL FOR THE ACCOUNT PASSWORD



LANDING PAGE



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# APP VIEW DEVICE AND DATA



USER EQUIPMENT LIST

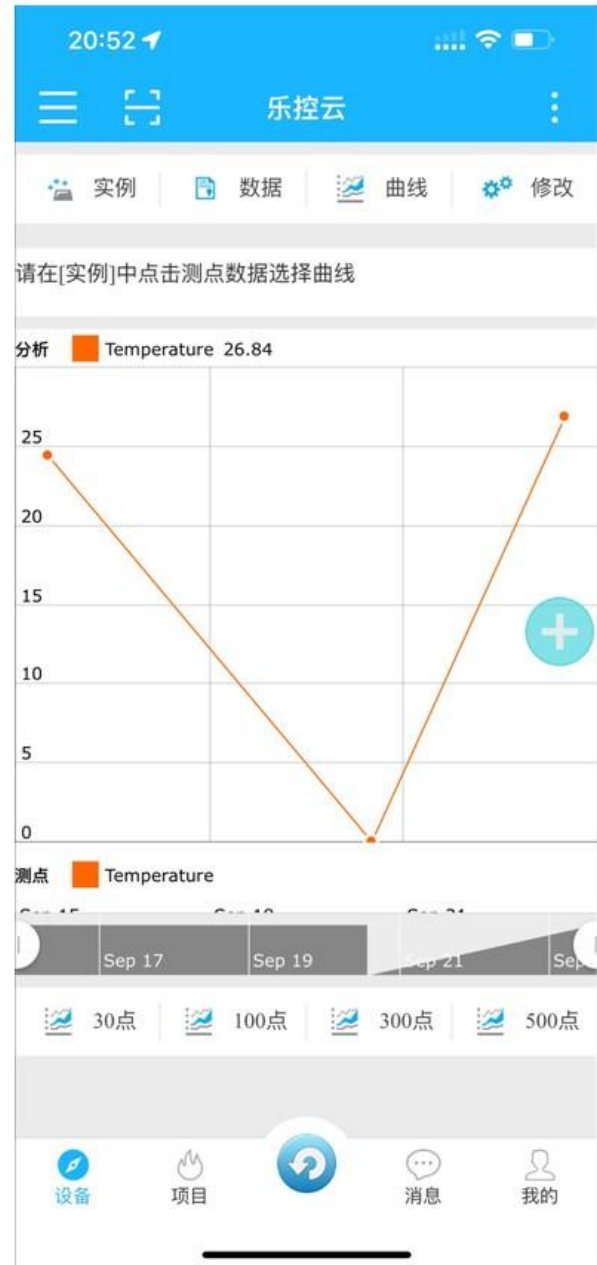


LIST OF METEOROLOGICAL DATA

# APP VIEW HISTORICAL DATA AND CURVE ANALYSIS



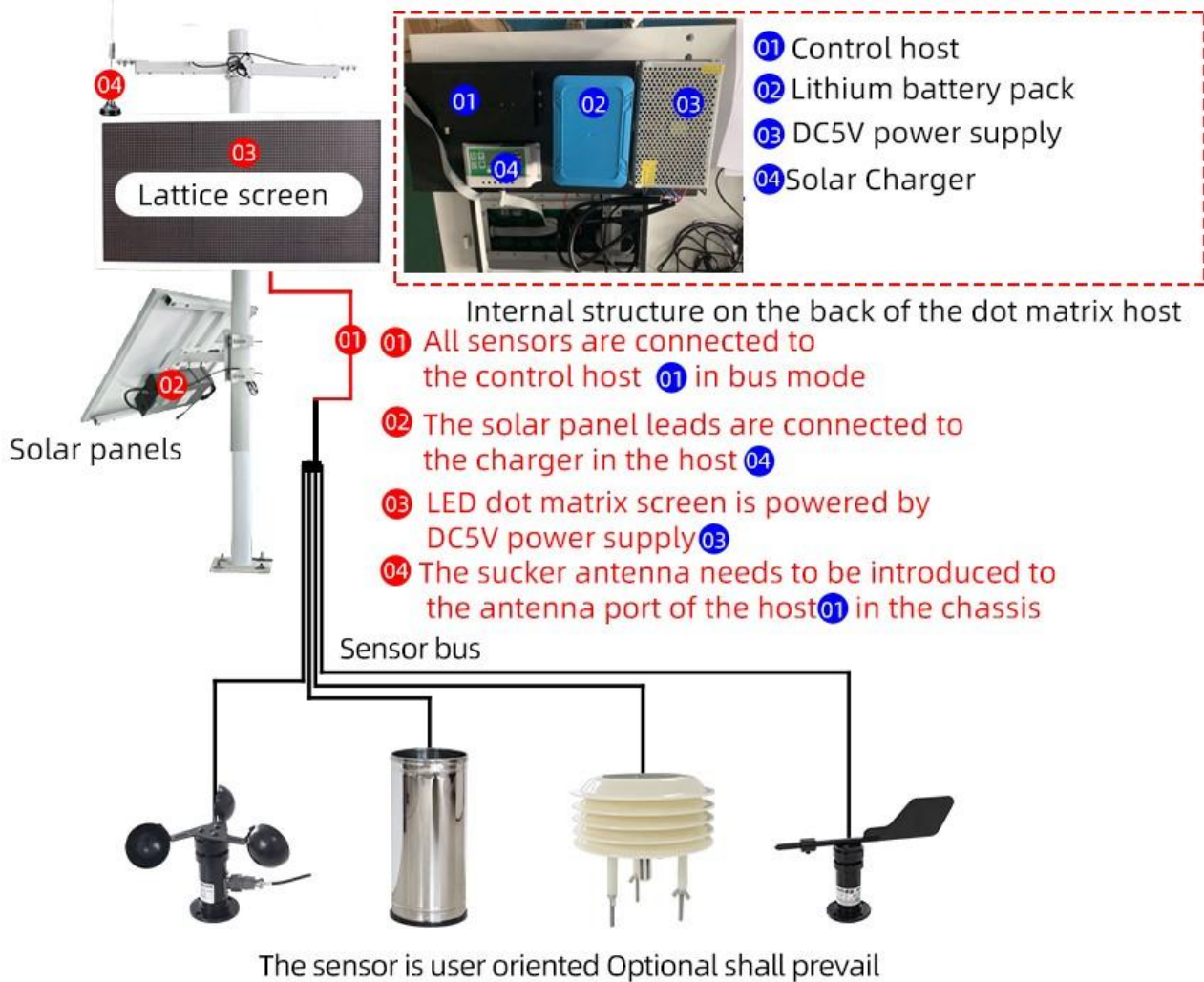
HISTORICAL DATA



CURVE ANALYSIS

# Wiring mode

## Basic structure and wiring of meteorological station



In the case of broken wires, wire the wires as shown in the figure. If the product itself has no leads, the core color is for reference.

### How to use?

Small weather stations can be widely used in warehouse storage, flower breeding, libraries, HVAC pipelines, animal husbandry and other occasions



**Product List**





Pole stand



Dot matrix screen host

Built-in: 1, built-in NB-IOT host 2, lithium battery pack  
3. Solar charger 4. One-year IoT tariff card



Solar panels and brackets



RS485 sensor  
(Combination according to  
user selection)

### Disclaimer

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