

WS 05-01

Product Specification

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1.0	First release	Li Xing	2021-03-02	

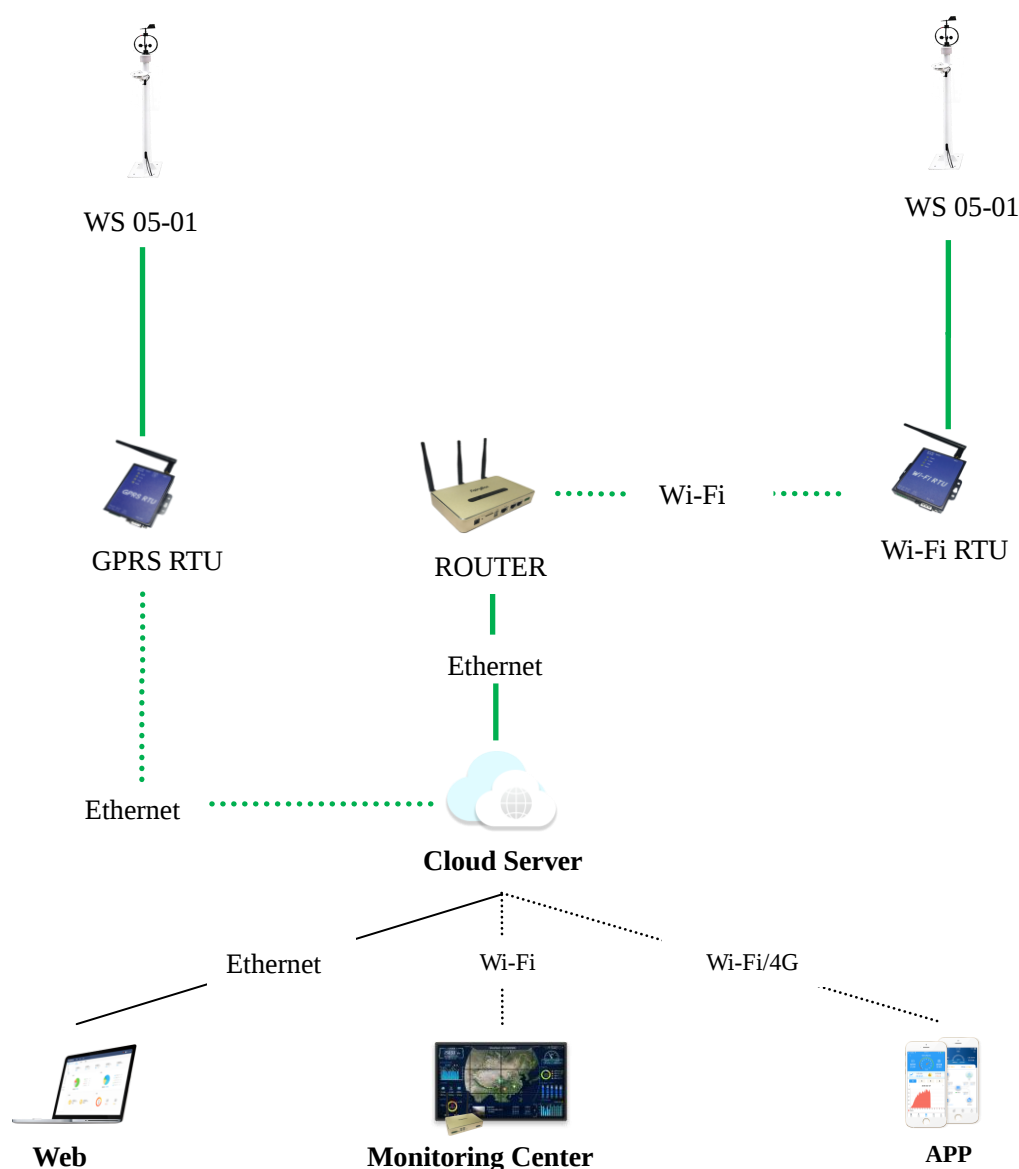
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1. Product Overview

WS 05-01 is a fully digital detection, high-precision sensing photovoltaic environmental weather station, which can be used for photovoltaic power plant site light intensity, module temperature, wind speed, wind direction, air temperature, etc., for accurate measurement. The built-in signal processing unit can output the corresponding signal according to user requirements. High strength structure design, can work reliably in harsh climate environment. The weather station can be connected to the PV monitoring system. The weather station can be connected to the PV monitoring system, and the data from the weather station can be displayed, recorded and analyzed by the monitoring system to ensure the effective operation of the PV plant.

WS 05-01 Product typical networking scheme



2. Product Features

(1) Quick installation

Easy installation, greatly reducing project installation time;

(2) Stable performance

Ability to measure with high accuracy and stability in extremely harsh environments;

(3) Real-time data.

Accurate real-time and historical data and better evaluation of system efficiency;

(4) Strong adaptability.

The design of the structure is resistant to harsh environments, moisture-proof and dust-proof to national standards.

3. Product Structure



4. Product Specification

(1)WS 05-01 Sensor parameters:

Content	Measurement Range	Resolution	Accuracy
Wind speed	0~70m/s	0.1m/s	$\pm(0.3 \pm 0.03V)m/s$
Wind direction	0~360 °	1 °	$\pm 3 ^\circ$
Atmospheric temperature	-50~100°C	0.1°C	$\pm 0.3^\circ C$
Backplane temperature	-50~100°C	0.1°C	$\pm 0.3^\circ C$
Daily radiation	0-2000w/m2	1w/m2	$\pm 7\%$

(2)WS 05-01 Basic parameters:

Pin	Parameter	Value
1	Rated voltage	DC12V
2	Signal output	RS-485
3	Communication protocols	Standard MODBUS
4	Baud rate	9600