

Mini Weather Station



WxWS-601

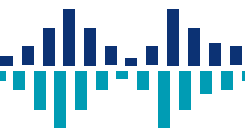


WxWS-601 is a compact comprehensive weather monitoring device that measures temperature, relative humidity, barometric pressure, fine dust, and rain detection and sends it to the server in real time. The Internal Fan is mounted to facilitate the flow of air to ensuring long-term stability and high accuracy of measurement. Mini weather station can be used for general purpose use and high precision weather observation.

General Specifications

CPU	CORE : 32bit
	Flash Memory : 4MB
	SRAM : 520KB
WIFI	Protocols 802.11 b/g/n/e/l (802.11n up to 150 Mbps)
	Frequency Range 2.4 ~ 2.5 GHz
Bluetooth	Bluetooth V4.2 BR/EDR & BLE Specification
Power Supply	Voltage : +12V from AV220V Adapter
	Current : < 200mA @ 12V
Size(mm) / Weight(kg)	Diameter(126), Height(148) / 0.95

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Sensor Specifications

Temperature	Type	PT100
	Operating Range	-40 ~ +60 °C
	Accuracy	±0.3 °C
Relative Humidity	Type	Capacitive
	Operating Range	0 ~ 100 % RH
	Accuracy	±3.0 % RH @ 25 °C (10~90 % RH)
Pressure	Operating Range	300 ~ 1,100 hPa
	Accuracy	±0.5 hPa @ -40 ~ +60 °C
Particle Sensor (Fine Dust)	Mass concentration accuracy	±10 $\mu\text{g}/\text{m}^3$ @ 0 to 100 $\mu\text{g}/\text{m}^3$
		±10 % @ 100 to 1000 $\mu\text{g}/\text{m}^3$
	Mass concentration range	0 to 1,000 $\mu\text{g}/\text{m}^3$
	Mass concentration resolution	1 $\mu\text{g}/\text{m}^3$
	Particle detection size range	Mass concentration : PM1.0, PM2.5, PM4 and PM10
		Number concentration : PM0.5, PM1.0, PM2.5, PM4 and PM10
	Lower limit of detection	0.3 μm
	Minimum sampling interval	1 s (continuous mode)
	Start-up time	<8 s
	Lifetime	>8 years operating continuously 24 h/day
Acoustic emission level	0.2 m : 25 dB(A)	