

VE
VASTHI
INSTRUMENTS

Vasthi Compact Weather Station

(T + RH + P + WD + WDIR + Rainfall)



VASTHI INSTRUMENTS PRIVATE LIMITED

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OVERVIEW :

VEWS01 (Vasthi) is designed and produced by Vasthi Instrument PVT. LTD. It innovatively realizes the six meteorological standard parameters (T, RH, P, WD, WDIR, Rainfall) through a highly integrated structure, which can realize the 24-hour continuous online

Monitoring of outdoor meteorological parameters, and output the six parameters to the user at one time through the digital communication interface. In addition, It can be expanded to increase other meteorological and environmental parameters (AQI six parameters: CO, NO₂, SO₂, O₃, PM_{2.5}, PM₁₀).

APPLICATION

VEWS01 (Vasthi) can be widely used in urban environmental monitoring, wind power generation, meteorological monitoring, Bridges, tunnels, ships, aviation airports, agricultural meteorology, water conservancy meteorology, power environment, highway meteorological monitoring and other fields. No maintenance and on-site calibration is required.



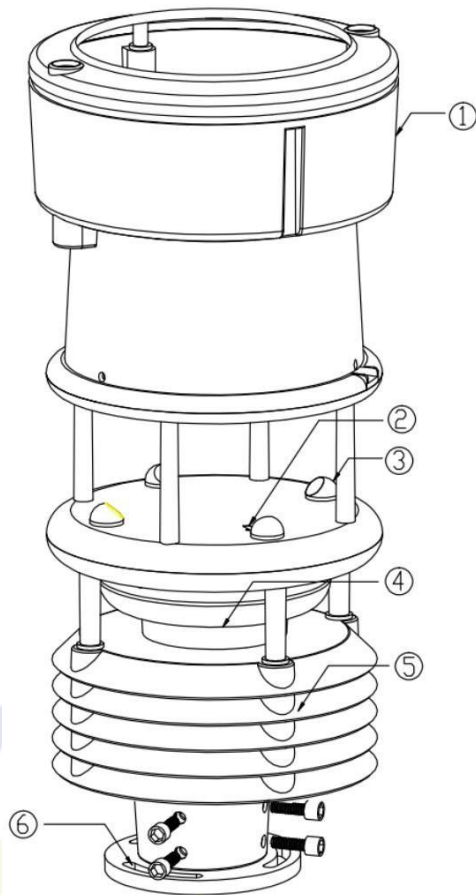
FEATURES :

1. Standard configuration monitoring T, RH, P, WD, WDIR, Rainfall, RS485 (MODBUS).
2. High precision, reliable performance, suitable for outdoor weather harsh environment.
3. Parameter collection, optional wireless data collector, automatic data upload network platform, mobile phone client real-time data view.

4. Real-time monitoring of meteorological environmental data, low cost, suitable for grid distribution.
5. Small size, modular design, flexible layout.
6. Optional GPS positioning, device tracking function.
7. Data acquisition adopts 32-bit high-speed processing chip, stable and anti-interference.

TECHNICAL SPECIFICATION:

Measure item	Principle	Range	Resolution	Accuracy
Atmospheric temperature	MEMS	-40-60℃	0.1℃	±0.3℃ (@25℃, typical case)
Atmospheric humidity	MEMS	0-100%RH	0.1%RH	±3%RH (0-90%RH)
Atmospheric pressure	MEMS	300-1100hpa	0.1hpa	±0.5hpa (0-30℃)
Wind speed	Ultrasonic	0-60m/s	0.01m/s	(0-30m/s) ±0.3m/s 或 ±3% (30-60m/s) ±5%
Wind direction	Ultrasonic	0-360°	0.1°	±2°
Rainfall	Photology	0-200mm/h	0.2mm	Error<5%
Supply	12-24VDC, solar power			
Output	RS485(Modbus)			
fixed form	A) Sleeve fixed; B) Flange adapter fixed			
Power consumption	<1W@12V			
Ingress Protection	IP66			
Main material	ASA + engineering plastics			
Mounting frame	1.5m, 3m Flange, 1.8m tripod			
GPS	Device tracking and positioning			
Data Release	PC, Telephone APP, LED, LCD TV display, etc.			



1. Rainfall sensor (optics)
2. Arrows to point north.
3. Ultrasonic probe.
4. Control circuits.
5. Thermometer shelter (temperature, humidity, air pressure monitoring position)
6. Bottom fixed with flange.



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