

The RK900-11 mini automatic weather station can simultaneously measure atmospheric temperature, humidity, air pressure, wind speed, wind direction, rainfall, solar radiation, illuminance, dust, visibility and other factors. The product uses low-power chips with a power consumption of only 1.7W, especially powered by solar energy or batteries. Due to the adoption of new technologies and processes, the structure is more compact and very suitable for agricultural meteorological systems. The outer shell is made of ASA engineering plastic and comes in two colors: black and white.

FEATURES

- ☐ High accuracy, fast response
- ☐ Compact structure and multi parameter measurement
- ☐ RS485/RS232/SDI-12 output
- ☐ No moving parts, maintenance free
- ☐ Low power consumption

APPLICATIONS

- ☐ Agricultural meteorology
- ☐ Smart City
- ☐ Bridges and tunnels
- ☐ Home Weather
- ☐ Environmental monitoring of high-altitude equipment
- ☐ General environmental monitoring



TECHNICAL SPECIFICATION

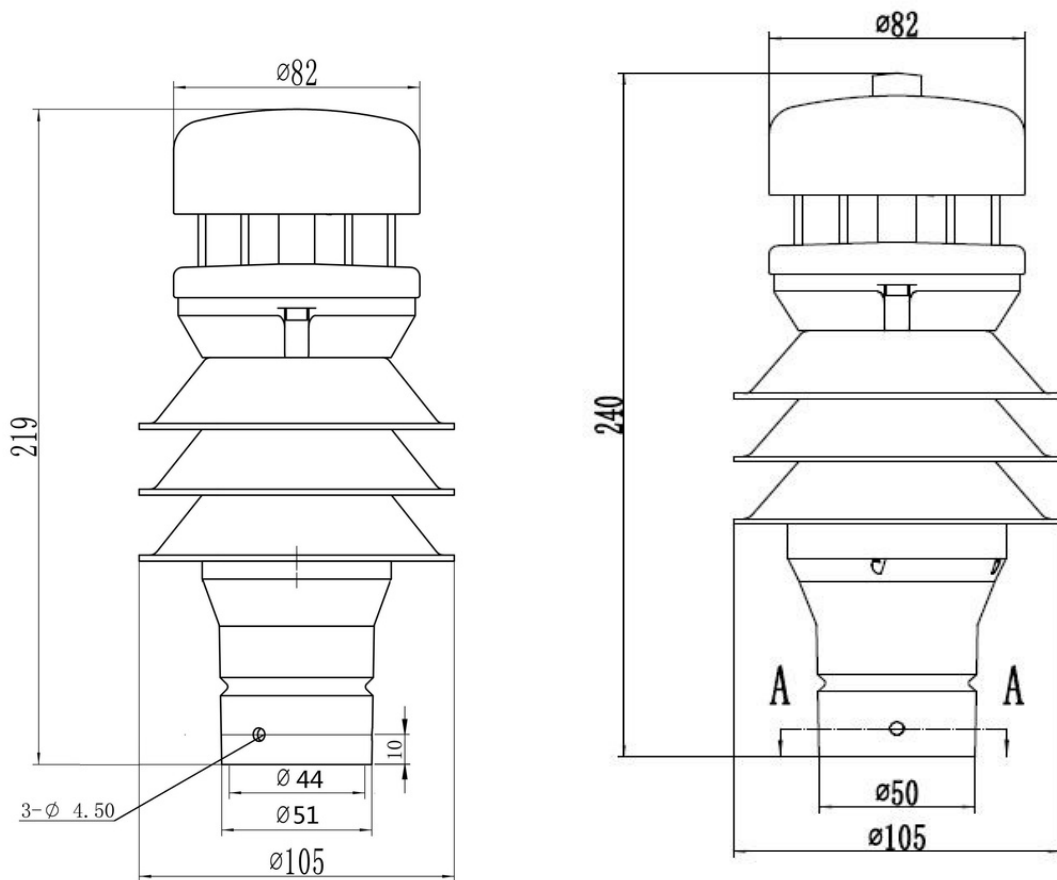
Item	Technical Specification		
	Range	Resolution	Accuracy
Wind speed	0~40m/s	0.1m/s	±5%
Wind direction	0~359°	1°	±3°
Atmospheric temperature	-40°C~+80°C	0.1°C	±1°C
Atmospheric humidity	0~100%	1%	±3%
Atmospheric pressure	300~1100hPa	0.1hPa	±2hPa
Rainfall	0~200mm/hr.	0.1mm	±8%(@ wind speed≤5m/s)
Altitude	-500m~9000m	1m	±8%
Irradiance	0~2000W /m ²	0.1W/m ²	±5%(@ vertical light)
Illumination	0~200000lux	0.1lux	±5%(@ vertical light)
PM2.5	0~2000µg/m ³	1µg/m ³	±5%
PM10	0~2000µg/m ³	1µg/m ³	±8%
Item	Technical Specification		
Power Supply	7-30VDC		
Power consumption	1.7W		

RK900-11 Ultrasonic Automatic Weather Instrument

Output Signal	RS232/RS485(Modbus or NMEA-183), SDI-12
Operating Temperature	-20°C-+60°C
Ingress Protection	IP65
Dimension	Φ82mm×(108-240)mm (Dimensions will vary depending on the parameters)
Weight(unpacked)	0.38kg
Main material	ASA(white or black optional)

DIMENSION

Unit: m m



With Irradiance

PARAMETER SELECTION TABLE

Remark	Series	Type	Supply	Output	Communication Protocol	Measure parameters	
RK							
	900						
		11					
			A				7-30VDC
			X				Other
				A			RS232
				B			RS485
				C			SDI-12
					A		Modbus-rtu(default)
					B		NMEA-0183
					C		SDI-12
					X		Other
						M5	Windspeed, wind direction temperature & humidity air pressure
						M6	Windspeed, wind direction temperature & humidity air pressure , rainfall
						X	Customized①

①Wind speed and direction are necessary, and other parameters can be combined freely, GPS/BDS and electronic compass are optional configurations. Please confirm with us before order.

Revision time	Reviser	Current Version	Remarks
20250428	Lee	V5.0	