



Rika RK-900-12-RS485 Ultrasonic Automatic Weather Instrument



Model: RIK90012RS485
Manufacture warranty: 12 months
Country of Origin: China

Introduction

RK900-12 mini automatic weather station is a civil integrated weather station independently, can measure multiple meteorological parameters. It can simultaneously measure five major meteorological elements such as atmospheric temperature, atmospheric humidity, wind speed, wind direction, air pressure. It uses a low-power chip with a power consumption of only 1.7W, which is especially suitable for solar energy or battery-powered environment with high requirements on power consumption. As a result of the adoption of new technology and new process, the structure is more compact and compact. Solar radiation and solar illumination detection module can also be selected, which is very suitable for supporting agricultural meteorological system. The outer shell is ASA engineering plastic.

Features

- High accuracy, fast response
- Easy to install, all-weather measurement
- RS485 / RS232 / SDI-12 output
- No moving parts, maintenance free
- Use radar measurement of precipitation, accurately reflect the rainfall and start-stop moment
- Compact and compact structure
- Low power consumption

Applications

- Environmental monitoring
- Sea-going vessel
- Bridge & Tunnel
- Solar and wind power generation
- Drilling platform
- Agriculture



Technical Specification:

- Wind Speed:
 - Rang: 0~70 m/s
 - Resolution: 0.1 m/s
 - Accuracy: $\pm 3\%$
- Wind Direction:
 - Rang: 0~359°
 - Resolution: 1°
 - Accuracy: $\pm 3^\circ$
- Atmospheric Temperature:
 - Rang: -40 ~ 80°C
 - Resolution: 0.1°C
 - Accuracy: $\pm 0.5^\circ\text{C}$
- Atmospheric Humidity:
 - Rang: 0~100%
 - Resolution: 1%
 - Accuracy: $\pm 5\%$
- Atmospheric Pressure:
 - Rang: 300~1100hPa
 - Resolution: 0.1hPa
 - Accuracy: $\pm 1\text{hPa}$
- Rainfall: **(Optional)**
 - Rang: 0~100mm/hr
 - Resolution: 0.01mm
 - Accuracy: $\pm 5\%$
- Altitude: **(Optional)**
 - Rang: -500~9000m
 - Resolution: 1m
 - Accuracy: $\pm 5\%$

- Radiation: **(Optional)**
 - Rang: 0~1750W/m²
 - Resolution: 0.1W/m²
 - Accuracy: $\pm 5\%$
- Illumination: **(Optional)**
 - Rang: 0~200,000 Lux
 - Resolution: 0.1 Lux
 - Accuracy: $\pm 4\%$
- Ultraviolet (UV): **(Optional)**
 - Rang: 100~200K uW/m²
 - Resolution: 1 uW/m²
 - Accuracy: $\pm 10\%$
- PM2.5, PM10: **(Optional)**
 - Rang: 0~1000 ug/m³
 - Resolution: 1 ug/m³
 - Accuracy: $\pm 10\%$

System Parameters:

- Supply: 12~24VDC
- Output Signal: RS485 (Modbus)
- Power Consumption: <1.7W
- Operating Temperature: -20~50°C
- Ingress Protection: IP65
- Cable Length: 4 meters (Default)
- Dimension: 110 x 299 mm (Dimensions will vary depending on the parameters)
- Main material: ASA

***Wind speed and direction are necessary, and other parameters can be combined freely.**

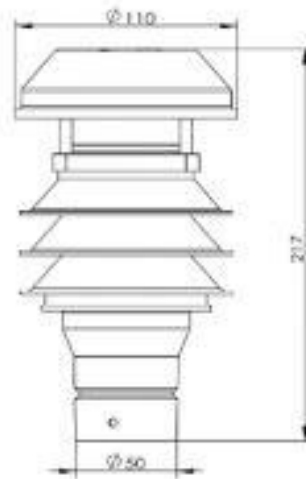


- 1 Anti-UV radiation ASA material
More than 10 years' service life
- 2 High-strength structural design
No moving parts, maintenance free
- 3 Good-waterproof connector:
IP66 grade 
- 4 Multiple Output optional:
RS485/RS232/SDI-12 output
- 5 Optional configurations:
GPS and electronic compass





Optional – Data Logger and Cloud Dashboard Data Transmission & Viewing



The device connects to the data logger and uploads the data to the cloud platform for viewing



RIKA Free Cloud
(www.rikacloud.com)



Data Logger
(Connect 32 parameters Max)