



Overview

The RK600-08A data logger has functions such as data acquisition, storage, transmission, and management, and is the core component of automatic weather stations. It can connect to 32 parameters simultaneously and is equipped with configuration settings and a color LCD display. The collected data can be uploaded to the cloud platform via Ethernet, Wi-Fi, or 4G. The data logger is with an optional relay control function available.

Features

Local real-time display

Multiple sensor interface

Large storage

Multiple communication interfaces

Wireless optional

Data cloud platform

Self-contained clock chip

Selection of battery power supply

Custom display interface

Free app and PC remote monitoring software

Applications

Real-time data display and storage

Adjustable data storage interval

Real-time viewing of data tables

Support remote viewing and exporting CSV format data

Support wireless connection between data loggers and cloud servers

Support U-disk local data export

Support exporting data within a specified time period

The connector supports blind insertion, with no risk of incorrect insertion

Compatible with both DC and AC power sources

Low power design

RIKA provides cloud platform open services for multi device management

Third party software APP, Mini programs and other applications can directly embed HMI screens, instantly possessing remote control capabilities for devices

Support customized display interfaces (including logos, languages, etc.)



Technical Parameter

Item	Details		
Display	4.3"color touch screen with backlight		
Resolving power	800*480		
Touch type	Resistive type		
Screen sleep	Support		
Backlight adjustable	Support		
Communication status indication	Support		
Internal storage	4GB+512M		
Communication interface	COM1:RS232/COM2:RS485/COM3:RS485		
Network	Ethernet (standard), 4G, WIFI		
Communication protocol	Modbus-Rtu, Modbus-TCP, HTTP, MQTT		
Supply	DC12-24V, AC100-240V(adapter)		
Measurement parameters	32 max		
Recording interval	1-240min settable		
U_disk download	Support		
Relay output	Customized		
Average consumption	<6W		
CPU	Quad core A7 processor		
Power protection	Equipped with surge protection and anti reverse protection		
Withstanding voltage	500VAC		
Insulation impedance	Exceeding 50M Ω @ 500VDC		
Working temperature	-10-+60°C		
Storage environment	-20 ~70°C		
CE	EN55022 & En55024		
Shell	270*213*55mm, 190*152*55mm		

Display Interface

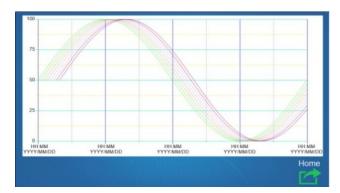




Real-time data

Data form







Historical curve

Historical data export



Application Remote APP MQTT 😂 HTTP

Setting interface

Server configuration

RIKA Cloud



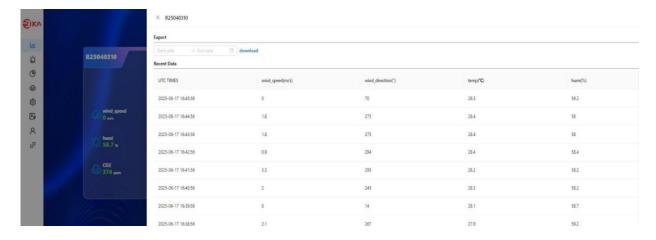
Real-time Data Interface



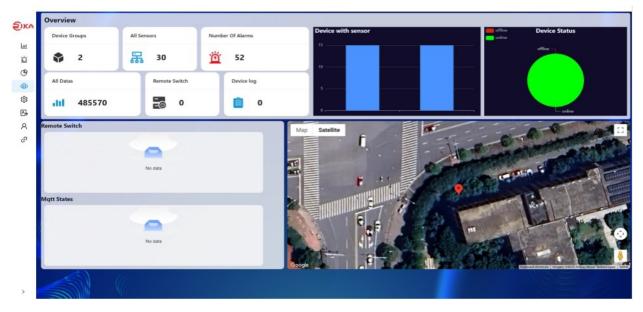
Real-time Data Interface



RIKA Cloud



Data Export Interface



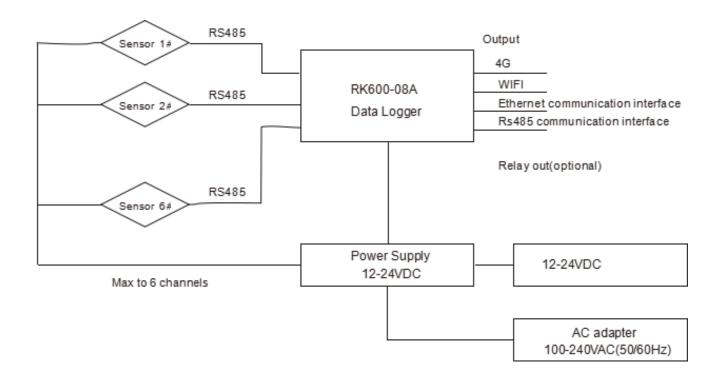
Data Statistics and Map Display



API Interface



System Diagram



RK600-08A System Diagram

Revision time	Reviser	Current Version	Remarks
20250815	Lee	V5. 0	