

RK600-07C Data Logger



Overview

RK600-07C Data Logger with data acquisition, storage, transmission and management, and other functions, is the core component of automatic weather station, which can connect 32 parameters at the same time, has the settings and color LCD display, can communication with sever or cloud via cable or wireless connection, provide communication protocol, convenient for secondary development.

Features

Local real-time display

Multiple sensor interface

Large storage

Multiple communication interfaces

Wireless optional

Data cloud platform

Self-contained clock chip

Solar power supply optional

Custom display interface

Free app and PC remote monitoring software

Advantage

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 sourcesLow power design, supporting solar power supply

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 custom display interfaces (including logos, languages, etc.)



Technical Parameter

Item	Details
Display	7" color touch screen with backlight
Resolving power	1024*600
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 ,LoRaWan(optional)
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	<7W
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	400*500*200mm, Support solar power supply

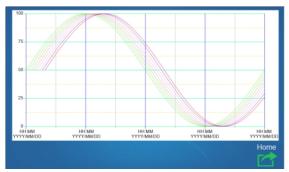
Display Interface



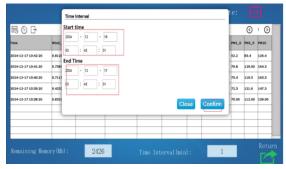


Real-time data Data form





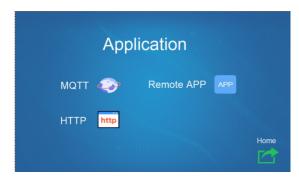
Historical curve



Historical data export



Setting interface



Server configuration

RIKA Cloud



Real-time Data Interface



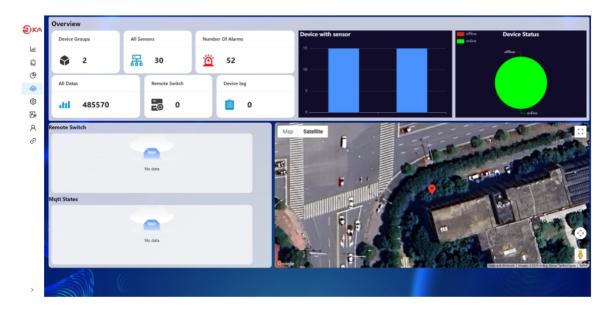
Data Curve Interface



RIKA Cloud



Data Export Interface



Data Statistics and Map Display



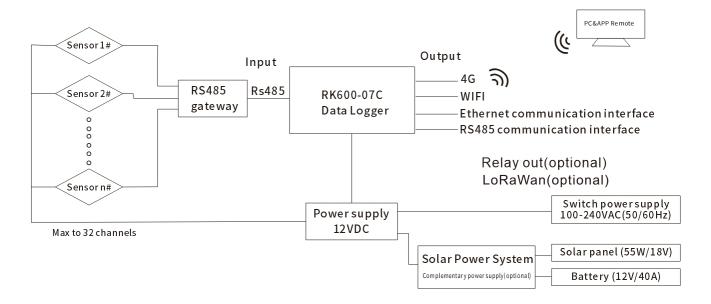
API Interface



Part List

Item	RK600-07C		
Data logger	√		
Protection box	J		
Waterproof connector(to sensors)	√		
Power connection terminal	√		
USB-RS485 converter	√		
Power adapter(AC100-240V@12VDC)	√		
Solar charging controller	Optional		
Solar panel	Optional		
Lead acid battery①	Optional		
Ethernet module	\checkmark		
GPRS/2G/3G/4G	Optional		
Lora module	Optional		
Relay module	Optional		
Other parts	Customizable		
①Since air transportation is not available, it is recommended that users purchase locally.			

System Diagram



RK600-07C System Diagram

Revision time	Reviser	Current Version	Remarks
20250505	Lee	V5. 0	