

RK600-07A Data Logger with data acquisition, storage, transmission and management, and other functions, is the core component of automatic weather station, which can connect 32 parameter 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 clock display
- Multiple sensor interface
- Large storage
- Multiple communication interfaces
- Wireless optional
- Free app and PC remote monitoring software
- Data cloud platform
- Self-contained clock chip
- Solar power supply optional
- Custom display interface



ADVANTAGE

- Real time Clock data display and storage;
- Adjustable data storage interval; Display DD/MM/YY, Day and Night
- View data table in real time;
- Support remote viewing and exporting data in CSV format;
- Sensor communication status indication;
- Support wireless between sensor and data logger;
- Support wireless between data logger and cloud sever;
- Support U_disk local export data;
- Support exporting data in specified time period;
- The connector supports blind plug, no misplug risk.
- Compatible with DC and AC power supply;
- Low power consumption design which support solar power supply;
- Compact design, the solar power supply system and battery can be installed in the protective box;
- > RIKA provide open service of cloud platform with multi-device management; Calculate the amount of water flow
- Windows, IOS, Android; Remote monitoring software available for Windows, IOS, and Android System;
- (RIKA cloud); Support video monitoring (by using RIKA's Cloud)
- > Support custom, display control output; Tipping Bucket, Radar Liquid Level, radar velocity meter, camera (option)



> Support customized display interface (including logo, language, etc.);

SPECIFICATION

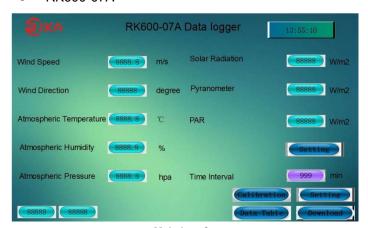
Item	RK600-07A	RK600-07B	
Display	7" color touch screen with backlight	7" color touch screen with backlight	
os	1	Android4.0.3	
Screen sleep	Support	Support	
Backlight adjustable	Support	Support	
Communication status	Support	Support	
indication			
Internal storage	128MB(Data stored once every hour for 6 years,	128MB(Data stored once every hour for 6 years,	
	once every 10 minutes for 1 year,	once every 10 minutes for 1 year	
External storage	SD Card 16GB (Option)	SD Card 16GB (Option)	
RIKA cloud	Support, Need GPRS/2G/3G/4G Module	Not support	
User cloud	Support, Need GPRS/2G/3G/4G Module	Not support	
API	Support, Need GPRS/2G/3G/4G Module	Not support	
Remote monitoring	Not support	Support Windows,Mac & Android	
Video & photo	Via RIKA cloud	Not support	
Sensor connection	Waterproof connector	Waterproof connector	
Communication	RS232/485,USB	RS232/485,Ethernet,GPRS/2G/3G/4G,WIFI	
interface Port	RJ45 Ethernet 10/100 (optional)	1	
	GPRS/2G/3G/4G(optional)	1	
	Lora(optional)	Lora(optional)	
	Zigbee(optional)	Zigbee(optional)	
Communication	Modbus-Rtu	Modbus-Rtu,Modbus-Tcp	
protocol	Modbus-Tcp(with Ethernet module)	1	
Supply	Solar power,DC12-24V,AC100-240V	Solar power,DC12-24V,AC100-240V	
Measurement	32 max.,support Digital 22 parameters	32 max.	
parameters	Analog 16bit 10 parameters V,mA (Option)		
Recording interval	1-240min settable	1-240min settable	
U_disk download	Support	Support	
Real Time Clock	WDT (UTC , Time Zone)	customized	
Average consumption	<3.5W	<3.5W	
CPU	ARMCortex-A8 32bit (600MHZ)	ARMCortex-A8 CPU32bit (720MHZ)	
ESD	Class 4, ±8kV	Class 4, ±8kV	
Operation temperature	-40-+75℃	-40-+75°℃	
Shock	10-25Hz(X,Y,Z 2g@30min)	10-25Hz(X,Y,Z 2g@30min)	
FCC	Class A	Class A	
CE	EN55022 & EN55024	EN55022 & EN55024	



Protection box	400*500*200mm,support solar power system	400*500*200mm,support solar power system
IP(with protection box)	IP55	IP55

DISPLAY INTERFACE

RK600-07A



RK600-07A Data Table From:YYYY/MM/DD/HH V 0

Main Interface

Data Table Interface

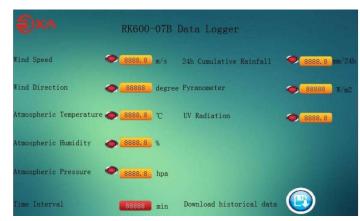
RK600-07B



Main Interface



Setting Interface



Data Table Interface

PC & APP Remote Interface



Equipment storage cabinet

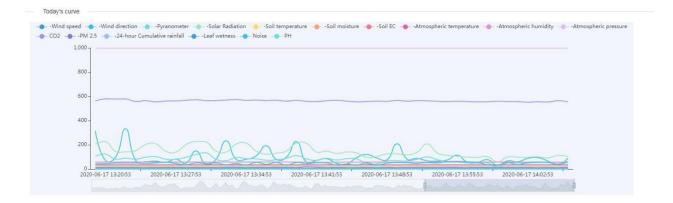
- Made from galvanized sheet steel. or synthetic materials that are strong outdoor weather resistant
- With IP54 water protection standard at least.
- The cabinet is flat, double wall (Two layer panel) front and side panels have two layers. in order to better protect the heat from the sun when installed outdoors
- The front door has a manual lever lock and padlocks on the door can work conveniently
- Base has a channel for bringing the signal cable in and out.
- There is a ground wire connected between the cabinet frame and the door cover.
- The QR Code must be installed at each station in a position that is durable, resistant to weather, non-volatile and able to read the QR Code to link to the project's asset management system.

RIKA CLOUD



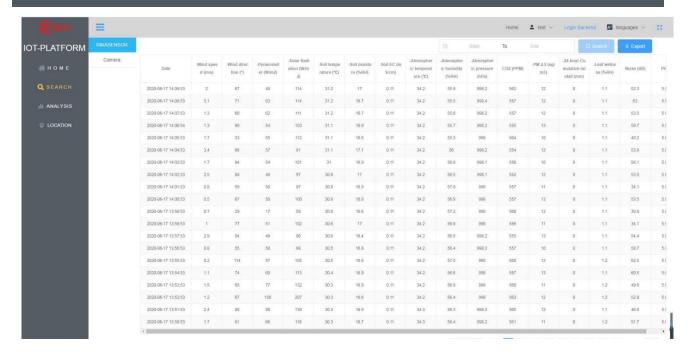
Real-time Data Interface



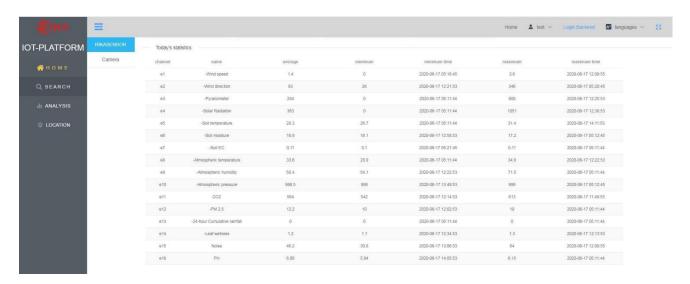


Data Curve Interface

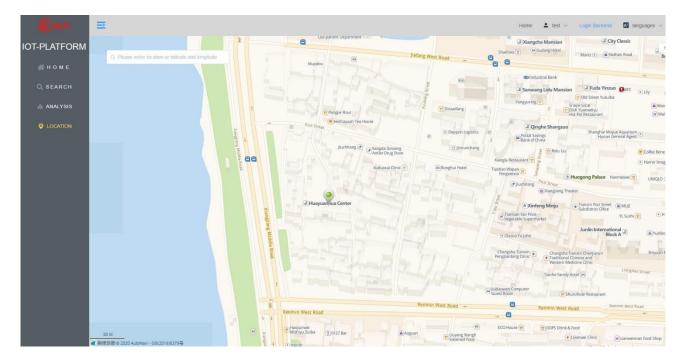




Data Export Interface



Statistics Interface



Map Positioning Interface



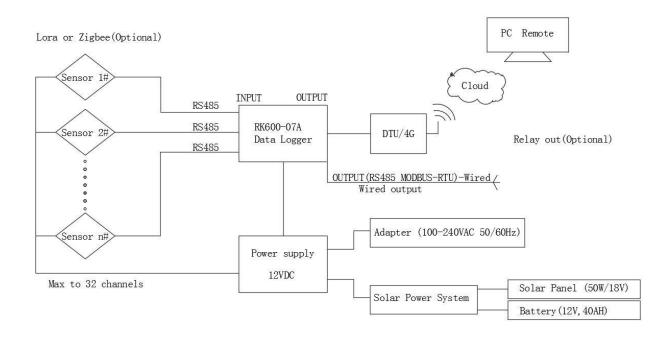
Video Surveillance Interface



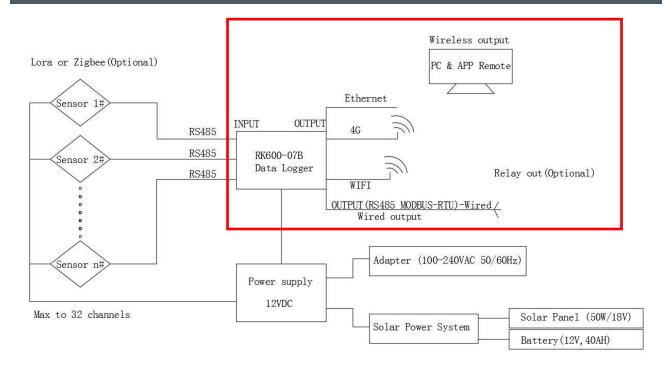
PART LIST

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

SYSTEM DIAGRAM







RK600-07 SYSTEM DIAGRAM

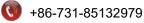
Complies with applicable CE directives.

Specifications subject to change without notice. Version 3.0

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