RK600-07 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
- Free app and PC remote monitoring software
- Data cloud platform
- Self-contained clock chip
- Solar power supply optional
- Custom display interface

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 sources;
- Low 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.);



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SPECIFICATION

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

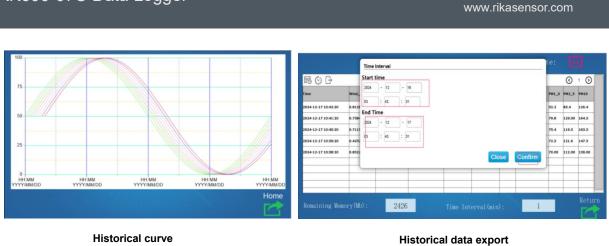
DISPLAY INTERFA

	Data								Dele	te:	Ē	Ţ
 Wind Speed(m/s) 8888.8 	Air Pressure(hpa)	6 0 G									3	1 🕥
Wind Direction(°)	Rainfall(mm/24h)	Time 2024-12-17 10:42:20	Wind_speed	Wind_direction	Air_temperature 0.815721	Air_humidity 85.9276	Air_pressure		Solar_radiation		рм2_5 83.4	PM10 126.4
● 88888 Air Temperature(℃)	UV Radiation(W/m2)	2024-12-17 10:41:20 2024-12-17 10:40:20	0.738427	144 310	0.815721	85.8406 85.775	1009.48		0.00	-	129.00 119.5	164.3 163.3
 	 8888.8 	2024-12-17 10:39:20 2024-12-17 10:38:20	0.425215	270	0.845094	85.6967	1009.5		0.00	-	121.6	147.3
-/-> Air Humidity(%)	CO2(ppm)										_	
00/00/0000 00:00:00		Remaining Memo	ory(Mb):	242	6	Time In	terval (mi	າ):	1			Return

Real-time data

Data form





Project
Network

Project
Network

Settings
Information

Cloud
Back

MQT
Remote APP

HTTP
Into

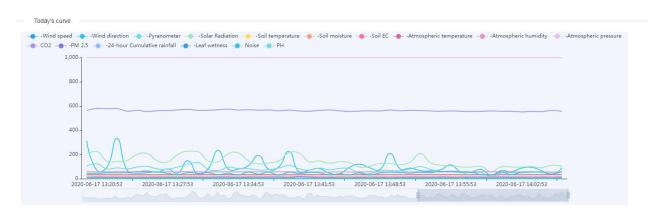
Setting interface

Server configuration

RIKA CLOUD



Real-time Data Interface



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Data Curve Interface

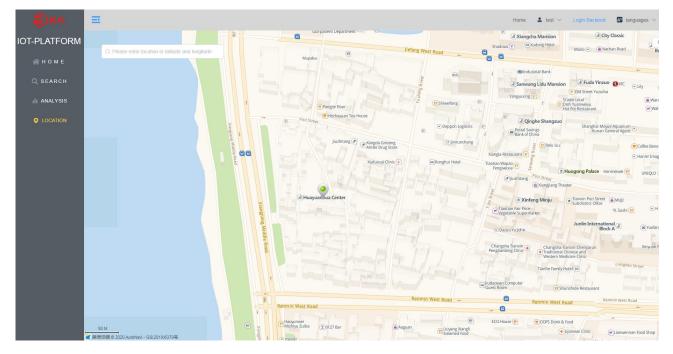
											Start	То	End	c) Search		
Camera К номе	Date	-Wind spee d (m/s)	-Wind direc tion (*)	-Pyranomet er (W/m2)	-Solar Radi ation (W/m 2)	-Soil tempe rature (°C)	-Soil moistu re (%RH)	-Soil EC (m S/cm)	-Atmospher ic temperat ure (°C)	-Atmospher ic humidity (%RH)	-Atmospher ic pressure (hPa)	CO2 (PPM)	-PM 2.5 (ug/ m3)	-24-hour Cu mulative rai nfall (mm)	-Leaf wetne ss (%RH)	Noise (dB)	
SEARCH	2020-06-17 14:09:53	2	67	48	114	31.2	17	0.11	34.2	55.9	998.2	562	12	0	1.1	52.3	
ANALYSIS	2020-06-17 14:08:53	3.1	71	63	114	31.2	16.7	0.11	34.2	55.5	998.4	557	12	0	1.1	63	
ANALTSIS	2020-06-17 14:07:53	1.3	60	62	111	31.2	16.7	0.11	34.2	55.6	998.2	557	12	0	1.1	53.5	
LOCATION	2020-06-17 14:06:54	1.3	90	54	103	31.1	16.9	0.11	34.2	55.7	998.2	555	13	0	1.1	59.7	
	2020-06-17 14:05:53	1.7	33	55	112	31.1	16.6	0.11	34.2	55.3	998	564	10	0	1.1	40.2	
	2020-06-17 14:04:53	3.4	66	57	91	31.1	17.1	0.11	34.2	56	998.2	554	12	0	1.1	53.9	
	2020-06-17 14:03:53	1.7	94	54	101	31	16.9	0.11	34.2	56.8	998.1	556	10	0	1.1	56.1	
	2020-06-17 14:02:53	2.5	88	49	97	30.9	17	0.11	34.2	56.5	998.1	552	12	0	1.1	53.5	
	2020-06-17 14:01:53	0.8	59	50	97	30.9	16.9	0.11	34.2	57.9	998	557	11	0	1.1	34.1	
	2020-06-17 14:00:53	0.5	67	50	100	30.8	16.8	0.11	34.2	56.9	998	557	13	0	1.1	53.5	
	2020-06-17 13:59:53	0.7	29	17	58	30.8	16.6	0.11	34.2	57.2	998	560	12	0	1.1	30.8	
	2020-06-17 13:58:53	1	77	51	102	30.6	17	0.11	34.2	56.9	998	556	11	0	1.1	34.1	
	2020-06-17 13:57:53	2.9	54	49	96	30.6	16.4	0.11	34.2	56.5	998.2	555	13	0	1.1	54.4	
	2020-06-17 13:56:53	0.8	55	50	98	30.5	16.8	0.11	34.2	56.4	998.2	557	10	0	1.1	58.7	
	2020-06-17 13:55:53	0.2	114	57	105	30.5	16.8	0.11	34.2	57.5	998	560	12	0	1.2	62.5	
	2020-06-17 13:54:53	1.1	74	60	113	30.4	16.9	0.11	34.2	56.6	998	557	13	0	1.1	60.5	
	2020-06-17 13:53:53	1.5	65	77	132	30.3	16.9	0.11	34.2	56.9	998	560	11	0	1.2	49.6	
	2020-06-17 13:52:53	1.2	67	100	207	30.3	16.6	0.11	34.2	56.4	998	563	12	0	1.2	52.8	
	2020-06-17 13:51:53	2.4	88	80	139	30.3	16.9	0.11	34.3	56.3	998.2	565	12	0	1.1	46.6	

Data Export Interface

€)xa ≡						Home 💄 tes	t 🗸 Login Backend 🛛 🕅 languages 🛇
	R Today's sta	tistics					
Camera H O M E	channel	name	average	minimum	minimum time	maximum	maximum time
HOME	e1	-Wind speed	1.4	0	2020-06-17 05:16:45	3.6	2020-06-17 12:09:55
SEARCH	62	-Wind direction	93	26	2020-06-17 12:21:53	346	2020-06-17 05:20:45
	e3	-Pyranometer	284	0	2020-06-17 05:11:44	908	2020-06-17 12:25:53
NALYSIS	e4	-Solar Radiation	363	0	2020-06-17 05:11:44	1051	2020-06-17 12:38:53
OCATION	e5	-Soil temperature	28.3	26.7	2020-06-17 05:11:44	31.4	2020-06-17 14:11:53
	e6	-Soil moisture	16.9	16.1	2020-06-17 12:58:53	17.2	2020-06-17 05:12:45
	e7	-Soil EC	0.11	0.1	2020-06-17 05:21:45	0.11	2020-06-17 05:11:44
	68	-Atmospheric temperature	33.6	28.9	2020-06-17 05:11:44	34.9	2020-06-17 12:22:53
	e9	-Atmospheric humidity	58.4	54.1	2020-06-17 12:22:53	71.5	2020-06-17 05:11:44
	e10	-Atmospheric pressure	998.5	998	2020-06-17 13:49:53	999	2020-06-17 05:12:45
	e11	CO2	564	542	2020-06-17 12:14:53	613	2020-06-17 11:49:53
	e12	-PM 2.5	12.2	10	2020-06-17 12:02:53	19	2020-06-17 05:11:44
	e13	-24-hour Cumulative rainfall	0	0	2020-06-17 05:11:44	D	2020-08-17 05:11:44
	e14	-Leaf wetness	1.2	1.1	2020-06-17 12:34:53	1.3	2020-06-17 12:13:53
	e15	Noise	46.2	30.8	2020-06-17 13:06:53	64	2020-06-17 12:09:55
	e16	PH	6.06	5.94	2020-06-17 14:05:53	6.15	2020-06-17 05:11:44

Statistics Interface





Map Positioning Interface



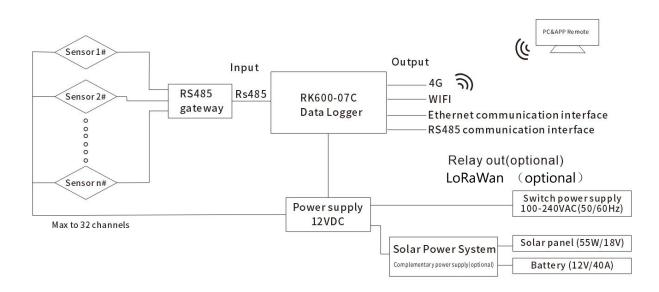
Video Surveillance Interface



PART LIST

Item	RK600-07C					
Data logger	\checkmark					
Protection box	\checkmark					
Waterproof connector(to sensors)	\checkmark					
Power connection terminal	\checkmark					
USB-RS485 converter	\checkmark					
Power adapter(AC100-240V@12VDC)	\checkmark					
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	Michael	V5.0	