Wi-Fi RTU user's manual

Version	Updated Content	Updated by	Approved By	Date	Note
1.0	The first version released	Kevin Yuan	Mencius	2016-12-3	

1 Product structure diagram



Product specification

Category	Entries	Parameters
	Size(Length/Width/Height)	90*66*26mm
General	Weight	187g
Parameter	Protection class	IP21
S	Rated voltage	DC5V~28V
	Maximum current	200mA(5V)

	-	
	Operating temperature	-30°C ~ +85°C
	Storage temperature	-40°C ~ +90°C
Eutornal	Serial port	RS485 or RS232, used for communication
External	Wi-Fi	1pcs , 2.4GHz, 802.11 b/g/n , AP+STA
Interface	Antenna interface	Wi-Fi Onboard(External antenna can be selected)
	Data input	RS485 /RS232
Llauduuana	Data output	Wi-Fi
Hardware	Serial port Baud rate	9600bps
part	Delay time	1.5s
	Software watchdog	Available
	Wireless standard	802.11 b/g/n
	Frequency range	2.4GHz
	Antenna gain	>2.5 dBi
	Data rate	11Mbps@11b, 54Mbps@11g, 72Mbps@11n
Wi-Fi part	Hardware encryption	WEP , WPA/WPA2
	Communication distance	100M(Open environment)
	Working mode	AP(Wireless access point) mode;
		AP+STA(Coexistence mode)
	Built-in server language	Chinese, English
Software	Supported application	Modbus-RTU
SUILWAIE	protocols	
part	Supported network	Modbus-TCP

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	protocols	
	Driver support	Wi-Fi
	Connect function	Support APP connection, monitoring, parameter
	Connect function	setting
	The number of connected	1 marc
Other	devices	ipes
Uther	Warranty	2 years
	Authentication	CE, ROHS

2 Install Wi-Fi RTU and Set Parameters

2.1 Install Wi-Fi RTU

Use RS-485 cable to connect the Wi-Fi RTU and the equipment. And use RS-485 cable or adaptor to supply power. The PWR light will be blue when it works.

- 2.2 Set Parameters
 - 2.2.1 Enter the Web Server into Wi-Fi RTU Setting

Use computer with wireless network adapter to connect the Wi-Fi AP (The Access is the PN number, Password is 12345678). Start the web browser and enter default IP address "192.168.8.66" to get the login interface(the default user name and password is admin).

ystem Info	DEV PN	W0016180030429
TA Set	Soft Ver	test_1.2.0.5
ORT Set	WIFI MODE	APSTA
EVICE Set	WiFi Ver	V1.1
/stem Set	AP MODE	
	SSID	W0016180030429
	IP	192.168.8.65
	MAC	ACCF23A441ED
	STA MODE	
	Network Status	Network Success
	Router SSID	
	IP	192.168.177.104
	MAC	ACCF23A441EC

2.2.2 Set the network parameter

Clink on "STA Set" to set the network parameter. You can use the Searching to get AP access nearby, and then put the password. You can also to change the name

of AP access of Wi-Fi RTU.

Router Seting	1	1
Note: case sensitive	1	Scan
Encryption Method	WPA2PSK *	
Encryption Algorithm	AES •	
Password	Show Wirds	
Obtain an IP address automatically	Enable •	
P Address	192.168.177.104	
Subnet Mask	255 255 255 0	
Sateway Address	192.168.177.1	
DNS Server Address	10.10.100.254	
Mi-Fi AP Seting AP SSID	W0016180030429	Save
	Router Seting Network Name(SSID) Note: case sensitive Encryption Method Encryption Algorithm Password Dbtain an IP address automatically P Address Bubnet Mask Gateway Address DNS Server Address Ws-Fi AP Seting AP SSID	Router Seting Note: case sensitive Encryption Method Encryption Algorithm AES Password Show Wirds Dbtain an IP address automatically PAddress Ig2 168.177.104 Subnet Mask Z55.255.251 Gateway Address 10.10.100.254

2.2.3 Set the device address parameter

Clink on " Device Set" to set the device address parameter.

System Info			
STA Set	Device address setting		
PORT Set	Equipment Model	Address	Confirm
DEVICE Set	Equipment model	Audicaa	Commit
System Set	0x0212	• 3	Device Online
	restart to take effect!		Lauon address aner die

2.2.4 Restart the Wi-Fi RTU form System Set

2.2.5 Check the setting

Check the device connect status or and the network connect status from "Device

Set" and "Network Set" .

3 Check Data for the Monitor System

3.1 Enter Monitor System

Enter <u>www.shinemonitor.com</u> in the web browser to get Monitor System.



3.2 Register

Use the PN number to register a new user.

Shine	Monitor		Home	Product	Language 🔻
1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	Register			Have an account ? Log in	and the second
	10000	Username • 🛛			C. States
and the second second second		Password			
		Password Confirm			
		Email 🍖 🗹			
		Phone 🍋 😵			
		Datalog PN			
		Agree terms of service			
		Re	egister		Carton Contractor
		500 X 200		second state of the local division of the	× 100
		0 2014 2016 (#)	CP\$140700778		

3.3 Check Data

The system has created a plant when register.

Liggeng Date		🐟 Anläggning Översikt 👻		2 vplent * English
	ggning Översikt La Energy Over	view		C Antagong plat (Scoping State (Scoping State (Saids)
1.33MVn 14.52MVh 119.70MVn 222.80MVn Image: State St	Dagens produi	tion Minadees produktion Arets pr	roduktion	
	1.93MW	h 14.52MWh 119.70	0MWh 222.80MWh	anstan
Image: Second	×			
V249,537.32 49.021 6.911 5.121 n Lor Coogle UR UR <t< td=""><td>resultat</td><td>Sperat kol utsläpp CO2 uts</td><td>släppen SO₂ utsläpp</td><td></td></t<>	resultat	Sperat kol utsläpp CO2 uts	släppen SO ₂ utsläpp	
Coope UB Coope C	¥249,537	49.02t 6.9	91t 5.12t	
Coope US Approximation of the second of the				
DemoFiand Anagering State State Attagering State State State				Google 218 40 / Utp2018 05/2011/0020 Google, 55 telecom Imagery G2016 TermMetrice
DemoFlandb Junit Adapting State State Adapting State State				
DemoFland Arlaggings State TemoFland Arlaggings State Arlaggings State TemoFland Analited etate 57.047		The second se		
DemoPlant DemoPlant Arlaggings Stata Ander direfa Abund effect 56.4W	- unit	The Party of the P		
DemoPlant DemoPlant Atlaggings Stata annat Assaul effect 36 Avv		Tistern marker		
Analogening: Status and Analogenin Analogening: Status and Analogening: Status		DemoPlant1		
Advantie effekt 35 da.W. Advantie effekt 35 75W	DemoPlant0			
	DemoPlant0 Anlaggnings Status	Anläggnings Status normat		

Clink on one plant to view the detail data of it, including energy output, device status,



warnings etc.

Check the real-time output power and detail data from "Device Management" .



3.4 Creating new Plant

Create a new plant for the Home page of System if needed.

Shine Monitor	🗞 DemoPlant0 🗸								<u>a</u>	plant 👻	English 👻
		Anläggningsöversikt	Kraftproduktion Översikt	Device Management	Larmhändelse	Plant Information	Plant Analysis	Video Surveillance			
		1, Installation inform	mation								
				Anläggningsnamn:	DemoPlant0						
				installationsdatum :	2015-08-17						
				Nominell effekt :	80	KW	٠				
				Design företag :							
		2, Anläggnings läge	•								
				Country :	中国						
				Province/State :							
				City							
				Adress							
				Tidszon	GMT+08:00) Beijing,Chongqing,Hong	Kong,Urumqi,Kuala	a Lumpur,Singapore,I 🔹			
				longitud :	113.928467						
				latitud :	22.583399						
		3, Inkomst formel (1 kWh)								
				Reavinster :	1.12						
				valutor :	RMB(¥)					
				Sparad kol (kg)	0.22						
				Koldioxidutsläpp (kg)	0.031						
			Utsläpp	en av svaveldioxid (kg)	0.023						
		4. Anläggning översi	kt								
				Anläggnings bilder	选择文件	未选择任何文件					
					-						

3.5 Add new Data Connector

Add new Data Connector from Device setting if needed.

		Anlaggningsöv	ersikt Kraftproduktion Översikt	Device Management Lamhändelse	Plant Information Plant Analys	sis Video Surveillance	
atainsamiing lista				Datainsamling	g av ägda anläggningar		
L DATALOGIN	datalog PIN-Kod	datalog name	Datainsamlingsstatus	Datainsamlings frekvens (er)	Heartbeat -intervall (er)	Tidszon	Operation(Modify/Delete/Detach/Upgra
	AS120101008516	DATALOG00	Normal	300	30	8	▲ 8 Q
	AS120101019871	DATALOG01	Normal	300	30	8	≠ B Q
		Lägg * datal	till mer datamängd og PIN-kod	datalog nar	ne	×.	
		Lāgg • datai	till mer datamängd og PIN-kod	datalog nar	Avbrute	m Detrafta	
		Lāgg * datai	till mer datamängd	datalog nar	ne Avonste	n texhita	
		Lägg * datak	till mer datamängd	datalog nar	ne Avende	x s bout	
		Lägg * datai	till mer datamängd	datalog nar	ne Accute	n Traylar	

4 Attention

- 4.1 The Web Server of Wi-Fi RTU needs to load the first web and then to load the second one, Please do not refresh the web frequently.
- 4.2 The web of the Monitor System can not support the version under IE9, please use IE9 or above IE9, or Chome.