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AWT100 overseas commissioning process

(2023.3.20)

1. Wiring

1) Connect the power cord or AWT100-POW module to power AWT100



AWT100-POW power supply wiring diagram



Power adapter

2) Parallel AWT100 and 485 line of downstream instrument



485 wiring diagram

3) AWT100 and downstream instruments are powered on, waiting for AWT100 to identify the device

2.Parameter configuration

1) Connect the AWT100 to the computer with USB to 485 cable



Wiring diagram of USB to 485 line

2) Check the com number of 485 port connected to AWT100 on the computer (if it is not recognized, please install the USB to 485 cable driver by yourself)

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Query COM port



3) Open the "Acrel Gateway setup software" debugging tool

4) In the "Parameter Setting" interface, click "Read" to obtain the currently configured content

G Acrel Gateway setup software V102.17		-		×
Basic Statue S Parameter Setting Add 1	202121090700226 Report configuration information 3.122.67.29 Port 1: 1883			
Downlink Device				
Downlink Register Apn				
Version Apn Usernam				
Apn Passwor				
Up Interva	: 5 min			
UT	: 0-GMT V Country: China V			
UVLAN				
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2021/10/5 8 41 13 2021/10/5 8 41 13	Ferentie setting failed	Read	i	
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5) In the "Parameter Setting" interface, check whether Add1 Port1 is the correct target IP address and port;

Be sure not to check "Report configuration information" when using your own platform

Acrel Gateway setup softwar	V102.17			- U
Basic Statue	SN:	02121090700026	✓ Report configuration information	
	Add 1:	3.122.67.29	Port 1: 1883	
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6) AWT100-4G equipment confirms whether APN is required. If necessary, please fill in "Apn", "Apn Username" and "Apn Password" (Apn Username and "Apn Password" are optional);

Apn:	-		
Apn Username:			
Apn Password:	0		

AWT100-WIFI device, click "Read" in the figure below to obtain data, check whether the wireless user and password are correct, and click "Write" in the figure to write if there is any modification;

waln:	V20	ip:	0	÷.	0		0	4	0	
password:	22222222	netmask:	0	÷	0		0		0	Read
	🗹 dhcp	gateway:	0	4	0	2	0	4	0	Write

The AWT100-CE device checks whether the local IP information is correct. Click "Read" in the figure below to obtain the data. If the dhcp mode is used, please check "dhcp". If the dhcp mode is not used, you need to enter the corresponding ip, netmask and getway. If there is any modification, you need to click "Write" in the figure to write.

waln:	ip:	0	0.	0	0	
password:	netmask:	0	0	0	0	Read
🗹 dhcp	gateway:	0	0	0	0	Write

7) Check whether the user name, password, clientID and QoS level of MQTT are correct.

Name:	123	
password:	123	
clientID:		Read
Mqtt qos:	0 Mqtt keep alive: 2 min	Write

Parameter setting interface

8) In the "Downlink Register" interface, click "Read" at the bottom right to obtain the current template content, and confirm whether the template for the downstream instrument has been imported. If the template is empty or inconsistent, please re import the template (please contact us for a new template), and click "Import" to import the template; The gateway can set up up to 4 templates, which can be switched through "Table sel".

Bagio Statuo		json name	reg add	reg-type	
Dasic Statue	Write All	1			Table_sel
rameter Setting	1	ua	0100	float 1234	1 ~
-	2	ub	0102	float 1234	Mane
ownlink Device	3	uo	0104	float 1234	Address A
	4	uab	0106	float 1234	0056
wnlink Register	6	ube	0108	float 1234	Address type
Veneien	6	uca	010a	float 1234	serial number v
V8151011	7	hz	010c	float 1234	Empert Import
	8	ia	010e	float 1234	export import
	9	ib	0110	float 1234	
	10	ie	0112	float 1234	
	11	in	0114	float 1234	
	12	pa	0116	float 1234	
	13	pb	0118	float 1234	
	14	po	011 a	float 1234	
	15	р	0110	float 1234	
	16	qu	011e	float 1234	
	17	ąb	0120	float 1234	
	18	đa	0122	float 1234	
	19	q	0124	float 1234	
	20	pfa	012e	float 1234	
	21	pfb	0130	float 1234	
	22	pfc	0132	float 1234	
	23	pf	0134	float 1234	
	24	wh	013c	float 1234	
	25	wl	0144	float 1234	
	26	varh	0140	float 1234	
	27	varl	0154	float 1234	
	28		0000	null	
					Read

"Downlink Register" interface

9) On the "Downlink Device" interface, check the downlink instrument information, and the Serial number and Dev Name will be automatically identified (if any equipment is not successfully identified, you can enter it manually). You need to confirm here whether the number of circuits of each equipment is the same as the actual number.

	Serial number	Dev Name	Loop num	+ -	
Vrite All					
1g 1	SYZ21061430007	Model 1	4		
2	SYZ21061430030	Model 1	4		
3		null	0		
4		null	0		
5		null	0		
6		null	0		
7		null	0		
8		null	0		
9		null	0		
10		null	0		
11		null	0		
12		null	0		
13		null	0		
14		null	0		
15		null	0		
16		null	0		
17		null	0		
18		null	0		
19		null	0		
20		null	0		
21		null	0		
22		null	0		
23		null	0		
24		null	0		
25		null	0		
26		null	0		
27		null	0		
28		null	0		

"Downlink Device" interface

10) If the above information is changed, please click "New" after "gwConfigVer" and "downlinkConfigurator" in the "Version" interface to synchronize the latest configuration to the platform.

					 		 	_	_	_
Greel Gateway setup software	v102.17							-		×
Basic Statue						-				
Parameter Setting	Soft code:	1844	gwConf:	gVer: 1	New					
Downlink Device	App ver:	1004	downlinkConf:	.gVer: 2	New					
	App ver pro:	0	alarmConfi	g¥er: 1	New					
Downlink Register	Iap ver:	1003								
Version	Ota ver:	0								
n -	FW Add:									
	2021/9/24 12-10 35							Read		
	2021/9/24 12 11 40 2021/9/24 12 11 40									

Version interface