

AWT100 Data Conversion Module

Installation Manual V1.1

Acrel Co., Ltd.

DECLARATION

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1 Overview

At present, wireless technology relies on the advantages of easy deployment, low construction cost, and wide application environment. Data diversification has gradually become an important direction for network development and application in the future industrial Internet. AWT100 data conversion module is a new data conversion DTU launched by Acrel Electric. Communication data conversion includes 2G, 4G, NB, LoRa, LoRaWAN, GPS, WiFi, CE, DP and other communication methods. The downlink interface provides a standard RS485 data interface. It can be easily connected to power meters, RTUs, PLCs, industrial computers and other equipment, and only needs to complete the initial configuration at a time to complete the data collection of the MODBUS equipment; at the same time, the AWT100 series of wireless communication terminals use powerful micro-processing chips to cooperate Built-in watchdog technology, reliable and stable performance.

The appearance is shown in Figure 1.



Figure 1 AWT100 Wireless communication terminal

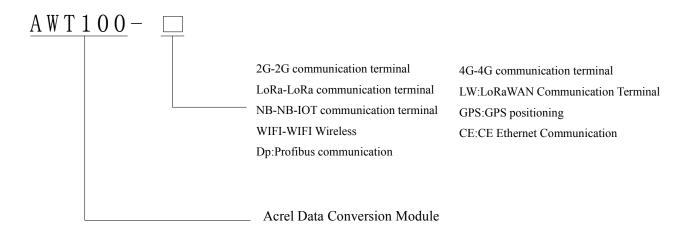
Features:

- ■Using single-mode guide rail shape, small size, flexible and convenient installation;
- A variety of mainstream wireless modules, suitable for various on-site environments;
- ■Multiple hardware interface modes, easy to use with other products;
- ■Rich communication interface protocols can meet the different needs of customers.

The applicable industries are as follows:

- ■Wireless meter reading;
- ■Building automation and security;
- ■Robot control;
- Power distribution network monitoring, power load monitoring;
- Intelligent lighting control;
- ■Automatic data collection;
- ■Industrial remote control and telemetry;
- ■Highway and railway data transmission;
- ■Other power and industrial control industries, etc.

2 Product Model



3 Features

■Support serial MODBUS RTU protocol data collection, and communicate with Acrel server through Acrel platform protocol①.

Support data collection of up to 30 MODBUS RTU devices.

■Support the collection of 5 register address fields for each MODBUS device, and the address range of each register does not exceed 64.

Support to preset alarm address and alarm value to trigger alarm for each MODBUS address range. There are currently at most 5 alarm addresses in each address domain.

■Support server MODBUS or LoRa transparent transmission communication.

Support fixed IP and dynamic domain name resolution methods to connect to the data center.
Support transparent transmission protocol, general mode (active round copy, regular report), MQTT protocol, smart power wireless protocol, prepaid wireless protocol It can be customized and developed.

■ AWT100-LW wireless communication terminal can upload data to the server through LoRa communication.

• AWT100-GPS wireless module can measure geographic location, obtain latitude and longitude and satellite time.

■ The AWT100-WiFi wireless module can automatically access the WIFI hotspot according to the hotspot name and password, realize the transparent transmission of 485 and WIFI data, and also use our cloud platform protocol.

■ AWT100-CE can realize data transmission from 485 to Ethernet. It can be used as a TCP client and supports transparent transmission or our cloud platform protocol.

■ AWT100-DP can realize data transmission from ProfiBus to MODBUS.

Note: ①AWT100-2G/NB/4G wireless communication terminal can communicate with the Acrel server through the Acrel platform protocol.

4 Typical Applications

Typical application connections are shown in Figure 2 and Figure 3. Connect the on-site 485 devices to the AWT100 wireless communication terminal. The AWT100 wireless communication terminal will actively collect the data of the 485 device according to its own configuration, and then communicate with the Acrel server.

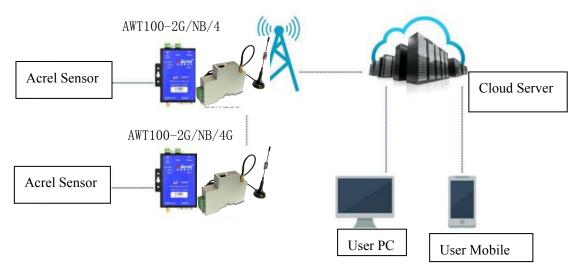


Figure 2 AWT100-2G/NB/4G Typical application of wireless communication terminal

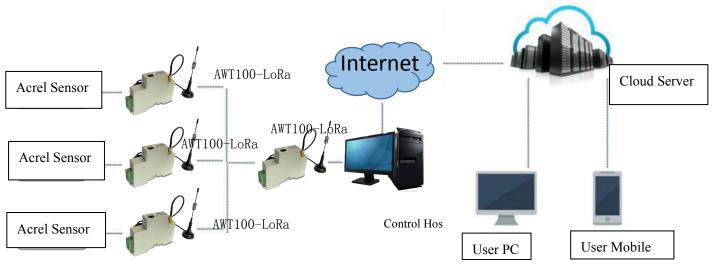


Figure 3 AWT100-LoRaTypical application of wireless communication terminal

Parameter Name	AWT100-4G	00-4G AWT100-NB AWT100-2G		AWT100-LoRa
Parameter Name	Aw1100-40			AWT100-LW
	LTE-FDD B1 B3 B5 B8		GSM 850	
Working	LTE-TDD B34 B38 B39 B40 B41	H-FDD B1 B3 B8 B5	EGSM 900	LoRa 460 510MHz
frequency	CDMA B1 B5 B8	B20	DCS 1800	
	GSM 900/1800M		PCS 1900	
Transmission	LTE-FDD	Maximum downlink	GPRS	
	Maximum downlink rate 150Mbps	rate 25.2Kbps	Maximum downlink rate	LoRa 62.5kbps
rate	Maximum uplink rate 50Mbps	Maximum uplink rate	85.6kbps	

Devertish	LTE-TDD Maximum downlink rate130Mbps Maximum uplink rate 35Mbps CDMA Maximum downlink rate 3.1Mbps Maximum uplink rate 1.8Mbps GSM Maximum downlink rate 107Kbps Maximum uplink rate 85.6Kbps	15.62Kbps	Maximum uplink rate 85.6kbps	
Downlink		RS485 Communi		
Uplink	4G Communication	NB-IoT Communication	2G Communication	LoRa Communication
SIM card voltage	3V, 1.8V		/	
Working current	Static power: ≤ 1 W, Transient power consumption: ≤ 3 W ≤ 0.5 W, Transient power		Static power: ≤0.5W, Transient power consumption: ≤1W	
Antenna interface	50Ω/SMA (Faucet)			
Serial port type		RS-485		
Baud rate	4800bps	、9600bps、19200bps、3	38400bps (default 9600bps)	
Operating Voltage	DC24V或AC/DC220V ^①			
Operating temperature	-10°C~55°C			
Storage temperature	-40°C~85°C			
Humidity range	$0\sim$ 95% Non-condensing			

5 Technical Parameters

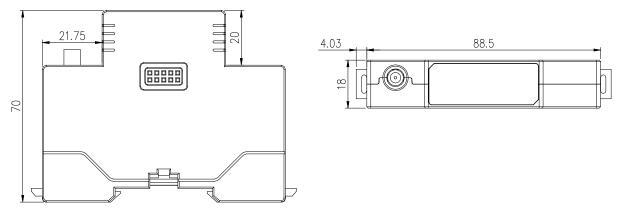
parameter name	AWT100-GPS	AWT100-WiFi	AWT100-CE	AWT100-DP
Work	2.5-5m band		Ethernet rate 10/100M adaptive	Profibus address: 1~125. (Note)
Downlink		RS485 Commu	nication	
Unlink	CDS positioning	WiFi wireless	Ethernet	Profibus
Uplink	GPS positioning	WIFI WIICIESS	communication	communication
Working current	Static power consumption: $\leq 1W$, transient power consumption: $\leq 3W$			Static power consumption: $\leq 0.5W$, transient power consumption: $\leq 1W$
interface	50Ω/SMA (Faucet) RJ45		DP9	
Serial port type	RS-485 Communication			
Baud rate	4800bps、9600bps、19200bps、38400bps(Default 9600bps)			

Operating Voltage	DC24V or AC/DC220V ^{\odot}
Operating temperature	-10°C~55°C
Storage temperature	-40°C~85°C
Humidity range	0~95% Non-condensing

Note: ①AC/DC220V power supply requires external AWT100-POW power supply module.
 ②Profibus communication rate: 9.6kbps, 19.2kbps, 45.45kbps, 93.75kbps, 187.5kbps, 500kbps, 1.5Mbps, 3Mbps, 6Mbps, 12Mbps. Data exchange length: total input length<=224 bytes, total output length<=224 bytes. The number of downstream instruments connected: 1~80.

6 Installation and wiring instructions

6.1 Outline and installation dimensions

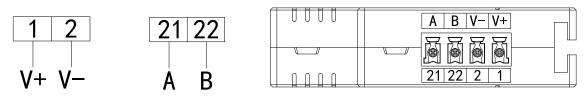


6.2 Product installation

Adopt standard DIN35mm rail type installation.

6.3 Terminals and wiring

6.3.1 AWT100-2G/NB/4G/LoRa/LW/GPS/WiFi terminal and wiring

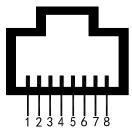


Auxiliary power (DC24V)

RS485 Communication

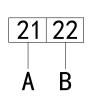
The function of the network port is the power interface and the RS485 interface. The specific definitions are as follows:

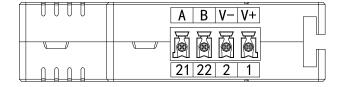
1	2	3	4	5	6	7	8
POW	ER	GND		NC		105 A	405D
(DC	212V)	UND		NC		485A	485B



6.3.2 AWT100-CE terminal and wiring

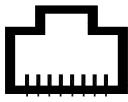






Auxiliary power

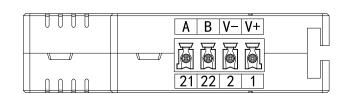
ower RS485 Communication



Ethernet communication 6.3.3 AWT100-DP terminal and wiring

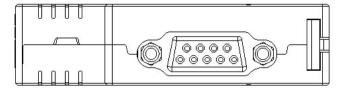




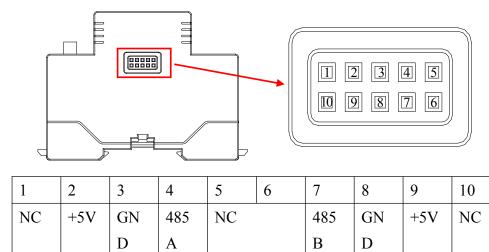


Auxiliary power

RS485 Communication

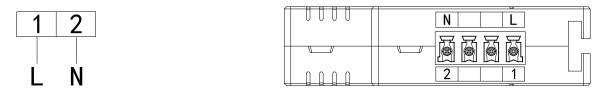


6.3.4 AWT100-2G/NB/4G/LoRa/LW/GPS/WiFi/CE/DP side interface definition



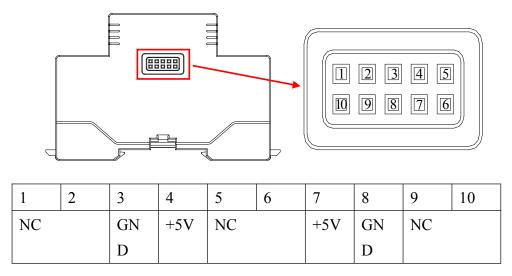
Note: The two interfaces of network port and terminal can only be used by one of the two (except for AWT100-CE), and cannot be used at the same time.

Power module terminal definition



Auxiliary power (AC/DC 220V)

Side interface definition



The side interface is used for the AWT100 wireless communication terminal to supply power through the AWT100-POW power module AC220V. The AWT100 wireless communication terminal is connected to the AWT100-POW power supply module through pins and fixed together by a buckle. The connection diagram is shown in Figure 4:

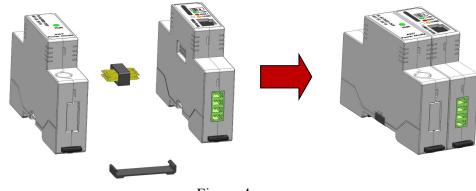


Figure 4

Installation Notes:

①When the AWT100 wireless communication terminal is powered by the AWT100-POW power supply module, the auxiliary power terminal and network port of the AWT100 wireless communication terminal The 24V power supply cannot be connected again.

(2) Antenna installation, the antenna interface of the AWT100 wireless communication terminal adopts $50\Omega/SMA$ (female), and the external antenna must be an antenna suitable for the working band. If other unmatched antennas are used, it may affect or even damage the equipment.

③When installing the SIM card, make sure that the device is not powered on. The SIM card of the AWT100 wireless communication terminal adopts a card tray installation method. You need to put the SIM card in the card tray correctly, and then insert the SIM card into the card holder of the device.

6.4 Panel light definition

6.4.1 Definition of AWT100-2G/NB/4G wireless communication terminal panel lights

•LINK (Green)	RSSI (Red)	• COMM (Orange)
The green indicator flashes for 2	The red indicator flashes	The orange indicator
seconds, the wireless module is being	for 3 seconds to indicate	flashes to indicate that
initialized	that the signal is less than	there is network data
The green indicator flashes for 1	20%	communication
second, connecting to the server		
The green indicator light is always on		
to indicate that the server is connected		
and the signal strength is greater than		
20%		

6.4.2 Definition of AWT100-LoRa wireless communication terminal panel light

• RUN (Green)	●LoRa (Red)	• COMM (Orange)	
The green indicator light is	The red indicator light flashes	The orange indicator light	
always on, indicating that the	for 1 second when there is a	flashes for 1 second when	
meter has been able to operate	LoRa signal to receive and send	there is 485 to receive and	
normally.	data.	send data.	

6.4.3 AWT100-LW Definition of wireless communication terminal panel lights

RUN : (Green)	●LoRa (Red)	Orange
The green indicator flashes for 1 second and the gateway is connecting.	The red indicator flashes for 1 second when there is LoRa signal to receive and send data.	for 1 second when there is 485
The green indicator light is always on to indicate that the gateway has been connected		

6.4.4 AWT100-GPS Definition of wireless communication terminal panel lights

• RUN (Green)	●LoRa (Red)
The green indicator light is always on,	After the positioning is successful, it flashes for
indicating that the power supply voltage	1 second and the green indicator light is off
is normal.	

6.4.5 AWT100-WiFi Definition of wireless communication terminal panel lights

• RUN (Green)	●LoRa (Red)
Blinking in connection, the connection	Blinking when there is data transmission
is successful.	

6.4.6 AWT100-CE Ethernet communication panel light definition

RJ45: Ethernet interface

6.4.7 AWT100-DP data conversion module panel light definition

Digital tube: display Profibus address (1~99)

USB interface: configure the module parameters, connect to the upper computer

DB9 interface: communicate with upstream DP equipment, Profibus_DP protocol

485 interface: communication with downstream instruments, Modbus_Rtu protocol

6.4.8 AWT100-POW Panel light definition of power module

The green indicator light is always on to indicate that the power module is operating normally. If the indicator light is off, it indicates that the module is not powered on or is faulty.

7 AWT100 Wireless Communication Terminal User Guide

7.1 AWT100 wireless communication terminal configuration

Before using the AWT100 wireless communication terminal, the user can configure the parameters of the AWT100 wireless communication terminal according to the actual situation. The operation process is as follows:

(1) The AWT100 wireless communication terminal is powered on, and the working indicator of the AWT100 wireless communication terminal flashes, indicating that the AWT100 wireless communication terminal has started to work.

(2)Start the configuration software of the AWT100 wireless communication terminal, which consists of the computer serial port parameter area, information display area, parameter setting area, parameter reading and setting buttons, as shown in Figure 5.



Figure 5

The AWT100 wireless communication terminal configuration software can read and set parameters, and can test the working status of the AWT100 wireless communication terminal. Please confirm the serial port number of the currently used serial port, modify the serial port number, and keep the serial

port baud rate consistent, and click "open serial port" after confirmation. After the serial port is successfully connected to the host computer (the host status box turns green) ^{主机状态:} **回**。 (3)AWT100-2G/4G/NB wireless communication terminal parameter reading

Click the in the upper right corner ^{参数读取}, to display all the parameter values inside the AWT100 wireless communication terminal, as shown in Figure 5.

(4)AWT100-2G/4G/NB wireless communication terminal parameter setting

Click the parameter value to be modified, directly input or modify the corresponding parameter

value, Click the button in the upper right corner 参数设置 to complete the parameter setting.

7.2 AWT100 wireless communication terminal parameter description

(1) AWT100-2G/4G/NB wireless communication terminal connection status



• GPRS status

Display the connection status between the AWT100-2G/4G/NB wireless communication terminal and the server.

• Signal value

Indicates the signal strength of the connection between the AWT100-2G/4G/NB wireless communication terminal

and the server. The larger the value, the stronger the signal.

• Number of upload packages

Indicates the number of data packets uploaded by the AWT100-2G/4G/NB wireless communication terminal to the server.

• Number of download packages

Indicates the number of data packets received from the server by the AWT100-2G/4G/NB wireless communication terminal.

• SIM card number

Insert the SIM card number of the AWT100-2G/4G/NB wireless communication terminal.

• IMEI

The device identification code of the AWT100-2G/4G/NB wireless communication terminal.

(2) AWT100 wireless communication terminal software information

软件版本		
版本:	V1000 编号: 1164	参数读取
	端口_1状态: 🗾 1	参数设置
TCI	?端口_2状态:	
时间:	2019-09-25 16:40:00	
设备时间:	19/9/25 16: 34: 27	时间设置

version

Software version of AWT100 wireless communication terminal.

serial number

Software version of AWT100 wireless communication terminal.

• TCP port_1 status

■Green indicates that the AWT100-2G/4G/NB wireless communication terminal is successfully connected to the server port .■Red indicates that the AWT100-2G/4G/NB wireless communication terminal failed to connect to the server port.

• TCP port_2 status

TCP port_2 is currently not used.

• Time

The system time of the current computer.

• Equipment time

Equipment time of wireless communication terminal AWT100-2G/4G/NB,Click 时间设置 the device time of the AWT100-2G/4G/NB wireless communication terminal can be synchronized with the current computer system time.



• Data area

The first box in the data area indicates the starting MODBUS address of the register of the downstream device, and the second box indicates the meter reading length (not more than 64), for example 1000 2a 数据区, indicates to start meter reading from the downstream device address 1000H, the address length is 2a (hexadecimal).

•Parameter area

The parameter area can be selected from the drop-down $\boxed{}$. The data in the parameter area can be uploaded to the server once when the device is powered on, once a day, or when the data changes.

• Alarm word

setting 10 alarm words of addresses can be set, and data will be uploaded when the alarm word of the set address changes.

• Number of equipment

The number of meter readings is set, and the data collection of up to 30 MODBUS RTU devices is supported.

• Number of meter reading segments

The number of register address fields collected by each MODBUS device shall not exceed 5.

• Number of alarm segments

The total number of alarm words to be set is up to 10, and the number of settings should be consistent with the number of alarm words.

• Waiting time

Wait for the response time of the downstream device.

Number of timeouts

If the number of reconnections of the downlink device exceeds the specified number, it is considered that the downlink device is disconnected from the AWT100 wireless communication terminal.

Downlink

The default 485 bus communication (LoRa communication is optional).

• Downstream device address type

Use the MODBUS address to read the meter and the serial number (14-digit) address to read the meter.

• Downstream equipment type (Reserved) (4) AWT100-2G/4G/NB wireless communication terminal network setting parameters

and the parts	(Second Second	NUMBER		1.1							
IP_1地址:	121	196	207	228	设备号:	ZHYDTES	1000001		连接方式:	IP地址	-
IP_1端口:	6879)			数据上传间隔:	5	Min		TCP连接总数:	1	
IP_2地址:	0	0	0	0	参数上传间隔:	1440	分	•			
IP_2端口:	0								网络超时时间:	10	5
域名设置_1:	www. :	acrel.c	om						网络超时重试次数:	2	
域名设置_2:	www.	acrel.c	om								

• IP_1 address

The IP address of the first server to connect to.

• IP_1 port

Connect the IP port of the first server.

IP_2 address

Connect to the IP address of the second server.

• IP_2 port

Connect the IP port of the second server.

• Domain name

setting_1 The domain name of the first server to connect to.

• Domain name setting_2

The domain name of the second server to connect to.

• Device number

Device serial number (14 digits).

• Data upload interval

The data upload time interval in the data area, the default is 5min.

• Parameter upload interval

The data upload time interval in the data area, the default is 1440min.

Connection method

The connection address method with the service area (IP/domain name).

• Total number of TCP connections

The number of servers connected at the same time.

• Network timeout

The time to wait for a response from the server.

• Number of network timeout retries

The number of retransmissions to the server.

(5) AWT100-2G/4G/NB wireless communication terminal protocol setting parameters

抄表设置	5 网络	發設置	协议设置	下行设备状态	MQTT	中继/透传								
编	码因子	1:					ST:	53				通信协议选项:	安全用电	•
编	码因子	2:					MN:	00000000	0000000000	00000000	num:24	协议内部选项:	无序列号	•
į	扁码分类	类: t	t	•										
I	艺编码表	表: 1												

- Coding factor 1
- Coding factor 2
- Code classification
- Process coding
- ST
- MN
- Communication protocol options
- Protocol internal options The above are the relevant agreement parameters involved in each area of the HJ212 environmental protection agreement, which depends on the agreement.

(6) Downlink device status of AWT100-2G/4G/NB wireless communication terminal

抄表设置	网络设置	协议设置	下行设备状态	MQTT	中维/透	传									
1:	•			读 2	5 11:	•		读	写	21:	÷	•		读	写
2:	•			读 2	5 12:	•	•	读	Ę	22:	•	•		读	写
3:	• •			读 🛛	j 13:	•	•	读	写	23:	•	-		读	Ę
4:	•			读 🛛	5 14:	•	•	读	写	24:	•	•		读	写
5:	•			读 🛛	15:	•	•	读	写	25:	•	•		读	5
6:	•			读 2	5 16:	•	•	读	Ę	26:	•	•		读	S
7:	• •			读 🛛	5 17:	•	•	读	写	27:	•	•		读	5
8:	•			读 🛛	5 18:	•	•	读	写	28:	•	•		读	5
9:	•			读 2	5 19:	•	•	读	写	29:	•	•		读	5
10:	• •	[读 2	20:	•	•	读	写	30:	•	•		读	写
													1	全部读	取

• Downlink device status

Click $\widehat{}$ can read the status of all downstream devices .Click $\widehat{}$ can read the status of a single downstream device.Click $\widehat{}$ can write the serial number of the downstream device (when using the MODBUS address to read the meter, there is no need to write the serial number). Red indicates that the downstream device is offline. Green indicates that the downstream device is online .E.g

(7) AWT100-LoRa Wireless communication terminal relay/transmission parameters

Relay/transparent transmission setting options are used to set the wireless parameter settings of the AWT100-LoRa wireless communication terminal, Click I the button can read the wireless parameter settings of the AWT100-LoRa wireless communication terminal. After modifying the wireless parameters of the AWT100-LoRa wireless communication terminal, Click AWT100-LoRa wireless communication terminal of the button to complete parameter setting.

抄表设置	网络设置	协议设置	T	行设备状态	MQTT	中继/透传
中继发射	频率:	5(470)	•	MHz		
透传发射	频率:	5(470)	•	MHz		
扩展	因数: [9	•			
信号	带宽: [9	•		读取	
	类型: [透传	•		写入	

• Relay transmission frequency

The frequency of relay transmission: $460 \sim 510$ MHz.If the working mode of the AWT100-LoRa wireless communication terminal is set to relay mode, the relay transmission frequency must be inconsistent with the transparent transmission frequency.

• Transparent transmission frequency

The frequency of transparent transmission: $460 \sim 510$ MHz.

• Expansion factor

LoRa spreading factor

- Signal bandwidth
- LoRa signal bandwidth
- Type

Set the working mode of the AWT100-LoRa wireless communication terminal. There are two ways to choose from: transparent transmission and relay.

(8) AWT100-GPS positioning module parameter settings

纬度:	31° 50'.9286 W	可视卫星数:	7	定位间隔:	1000	ms	
经度:	120° 12'.2540 E	使用卫星数:	7		1	波特率: 9600	•
定位时间:	2021/1/8 8:38:05	GPS模块通讯状	迹: 📕		参数读取	参数设置	

Positioning interval: latitude and longitude refresh interval. Positioning time: positioning satellite time.

	ing time. positi			er address tabl	le and description					
Adress	Register number	name	Number of registers	Attributes(W /R)	Description					
0000H	1	contact address	1	W/R	Value range 1~127, universal address 0					
0001H	2	Baud rate	1	W/R	0:1200 1:2400 2:4800 3:9600 4:19200 5:38400 6:57600 7:115200					
0002H	3	Positionin g interval	1	W/R	Value range 100ms~10000ms					
0003H	4	Latitude hemispher e	1	R	ASCIICode (0x4E)N,Northern Hemisphere (0x53)S, Southern Hemisphere					
0004H	5									
0005H	6	6 latitude 2		R	E.g 3150.7797 -> 31°50′.7797					
0006H	7	Transhemi sphere	1	R	ASCII Code (0x45)E,Eastern Hemisphere (0x57)W, Western Hemisphere					
0007H	8				float					
0008H	9	longitude	2	R	E.g 11711.9287 -> 117°11′.9286					
0009H	10	Second Minute	1	R						
000AH	11	Hour Day	1	R	UTC time					
000BH	12	Month Year	1	R						
[Note]	[Note] 1. Modbus read and write reply delay is 300ms~500ms under the default baud rate of 9600, Therefore, the waiting time of Modbus host should be at least more than 300ms;									

(9)AWT100-WiFiWireless communication module parameter setting

HUAWEI-	B311-DEAF	
123456		
	参数读取	参数设置

AP: WIFI hotspot name

PASS: WIFI hotspot password

(10)AWT100-CEEthernet data conversion module parameter setting

	客户端	MBTcp
本机IP地址:	目标IP地址:	目标IP地址:
默认网关:	目标端口号:	目标端口号:
子网掩码:	本机端口号:	本机端口号:
MAC地址:		
服务器 本机端口号:		
设备数里		
设备数量		
设备数量 通道1:		
设备数量 通道1: 通道2:		

(11)AWT100-DP data conversion module parameter setting

AWT100-DP		
关闭串口	COM8 ~	
常规参数 输入参数区 输出参数区	Profibus地址 1 参数读取 参数设置	波特率 115200 ∨ 停止位 1位 ∨ 校验方式 NO ∨ 参数读取 参数设置
	响应等待时间 1000 ms 轮询延时时间 0 ms 重发次数 1	抄表段数量 1 1-80 输出段数量 1 1-80 参数读取 参数设置
	软件编号1712软件版本号100	序列号 12345678912345 订单号 1234 参数读取 参数设置
	本地时间 2021/2/7 11:02:50 星期日	仪表时间 21/2/7 11:2:44 星期日 校准时间

8 How to use

After setting the parameters of the AWT100 wireless communication terminal, confirm that the downlink equipment is operating normally and the gateway can communicate with the AWT100 wireless communication terminal normally. Wait for the AWT100 wireless communication terminal to establish a connection with the server, and send the device number to the server to distinguish the devices. At the same time, the AWT100 wireless communication terminal will poll the downstream device to query the online downstream device according to the set query address range and query register address field, and send the polled data to the server for reporting.