

Configuration ModBUS Serial RUT 956

Firmware RUT9M_R_00.07.05.4

Modbus TCP Server	Disabled	CHANGE SETTINGS
Modbus Serial Server	Enabled	CHANGE SETTINGS
Modbus TCP Client	Enabled	CHANGE SETTINGS
Modbus Serial Client	Enabled	CHANGE SETTINGS
Modbus Gateway	Disabled	CHANGE SETTINGS
Modbus TCP Over Serial	Disabled	CHANGE SETTINGS
Data to server	Enabled	CHANGE SETTINGS

Modbus Serial Server

▼ MODBUS SERIAL SERVER CONFIGURATION

NAME	DEVICE		
RenogyBatt	rs485	off on	

▼ RS485 DEVICE MODBUS SERVER CONFIGURATION

Enable

offon

Name

RenogyBatt

Device

rs485

Device ID

0

Baud rate

9600

Data bits

8

Stop bits

1

Parity

None

Flow control

None

Full Duplex

offon

Enable custom register block

offon

Modbus Serial Client

MODBUS CLIENT

Enabled ☒

MODBUS SERIAL DEVICE CONFIGURATION

NAME	DEVICE		
RenogyBatt	rs485	☐	 

ADD NEW INSTANCE

NEW CONFIGURATION NAME

DEVICE NAME

rs232

ADD

MODBUS SERVER DEVICE CONFIGURATION

NAME	MODBUS SERIAL DEVICE	FREQUENCY	TIMEOUT	
RenogyBatt	10	10	1	☐  

RS485 DEVICE MODBUS CLIENT CONFIGURATION

Enable

☐

Name

RenogyBatt

Device

rs485

Baud rate

9600

Data bits

8

Stop bits

1

Parity

None

Flow control

None

Full Duplex

☐

SAVE & APPLY

✓ SERVER DEVICE CONFIGURATION

Enabled ☒ off on

Name RenogyBatt

Serial device RenogyBatt

Server ID 48

Number of timeouts 0

Frequency Period

Period 10

Timeout 1

✓ REQUESTS CONFIGURATION

NAME	DATA TYPE	FUNCTION	FIRST REGISTER NUMBER	REGISTER COUNT / VALUES	REMOVE BRACKETS
SOC	32bit UINT, Byte order 1,2,3,4	Read holding registers (3)	5045	2	☐ off on

✓ REQUEST CONFIGURATION TESTING

Requests SOC

TEST

Request successful, result: [99889]

Data to Server

DATA TO SERVER COLLECTIONS

RenogyBatt	Server type: MQTT	☒ off ☐ on	 
1 Modbus	Data type: Modbus Format type: Custom		 
2 Base	Data type: MNF info Format type: Custom		 

+ New data input

RenogyBatt:

COLLECTION CONFIGURATION

GENERAL SETTINGS

ADVANCED SETTINGS

Enable

☒ off ☐ on

Name

RenogyBatt

Format type

Custom

Format string

{ "Modbus": "%Modbus%", "Base": "%Base%" }

Modbus - %Modbus%
Base - %Base%

Empty value

N/A

SERVER CONFIGURATION

Type

MQTT

Server address

192.168.14.12

Port

1883

Keepalive

60

Topic

WoWaRUT/Modbus

Client ID

Client ID

QoS

0

Enable secure connection

☐ off ☐ on

Use credentials

☐ off ☐ on

1 Modbus:

▼ DATA CONFIGURATION

Name

Modbus

Type

Modbus

Format type

Custom

Format string

%name%

Date (Linux timestamp) - %timestamp%

MODBUS server ID - %server_id%

MODBUS server IP - %ip%

Start register (binary UINT16BE) - %baddr%

Raw data - %raw_data%

Date (Day/Month/Year Hour:Minute:Second) - %date%

MODBUS server name - %server_name%

Request name - %name%

Full MODBUS register address - %full_addr%

Data size - %size%

Binary Date (binary Linux timestamp, UINT32BE) - %bdate%

MODBUS server ID (binary UINT8) - %bserver_id%

Start register - %addr%

Register data (JSON object) - %data%

Empty value

EMPTY

Delimiter

;

Data filtering

All

Segment count

1

2 Base:

▼ DATA CONFIGURATION

Name

Base

Type

MNF info

Format type

Custom

Format string

%name%

Device name - %name%

WAN MAC address - %maceth%

Serial number - %serial%

Batch - %batch%

MAC address - %mac%

Hardware version - %hwver%

Empty value

N/A

Delimiter

,

SAVE & APPLY

Result in MQTT:

▼ WoWaRUT

```
Modbus = { "Modbus": "N/A", "Base": "RUT95620XXXX" }
```