

4.7. Teste Modbus TCP para RTU

Por padrão, os dados da porta serial e da porta de rede é transmitido de forma transparente. Se necessitar converter o protocolo Modbus TCP para RTU, é necessário selecionar a opção **Modbus_TCP Protocol** no campo **Transfer Protocol** no menu **Device Settings**.

Após a seleção a porta da interface altera automaticamente para 502, o software Modbus TCP do usuário é conectado à porta 502 do IP da interface, os comandos Modbus TCP que foram enviados serão convertidos em comandos RTU e enviados dispositivo Modbus.

Por exemplo, se o servidor serial receber o comando Modbus TCP **00 00 00 00 00 06 01 03 00 00 0a**, a porta serial envia o comando **01 03 00 00 00 0a c5 cd**.

The screenshot shows the 'Device Settings' window with the following configurations:

- Device Info:** Virtual Serial: COM2, Dev Type: (empty), Dev Name: EICETH485, Dev ID: 285FC17A2439, Firmware Ver: V1.452
- Function of the device:** Web Download, DNS System, REAL_COM Protocol, Modbus TCP To RTU, Serial Commnad, DHCP Support, Storage Extend, Multi-TCP Connection
- Network:** IP Mode: Static, IP Address: 192.168.1.254, Port: 502 (highlighted in red), Work Mode: TCP Server, Net Mask: 255.255.255.0, Gateway: 192.168.1.1, Dest. IP/Domain: 192.168.1.2 (Local IP), Dest. Port: 4196
- Serial:** Baud Rate: 57600, Data Bits: 8, Parity: None, Stop Bits: 1, Flow Control: None
- Advanced Settings:** DNS Server IP: 192.168.0.1, Dest. Mode: Dynamic, Transfer Protocol: Modbus_TCP Protocol (highlighted in red), Keep Alive Time: 60 (s), Reconnet Time: 12 (s), Http Port: 80, UDP Group IP: 230.90.76.1, Register Pkt: (empty), ASCII: , Restart for no data: every 300 Sec., Enable send parameter: every 5 Min., Framing Rule: Max Frame Length: 1300 (Byte), Max Interval(Smaller will better): 3 (Ms)

Buttons at the bottom: Get Default, Save As Default, Load Default, Modify Key, Firmware/Config, Restart Dev, Modify Setting, Cancel

Se o software Modbus TCP do usuário necessitar a utilização como escravo, é necessário alterar o modo de trabalho para **TCP Client** com base no protocolo de conversão e altere o IP de destino para o IP do computador onde o software Modbus TCP está localizado e a porta de destino é 502, conforme mostrado na figura abaixo.

Device Settings

Device Info

Virtual Serial: COM2

Dev Type: []

Dev Name: EICETH485

Dev ID: 285FC17A2439 [-]

Firmware Ver: V1.452

Function of the device

- Web Download
- DNS System
- REAL_COM Protocol
- Modbus TCP To RTU
- Serial Commnad
- DHCP Support
- Storage Extend
- Multi-TCP Connection

Network

IP Mode: Static

IP Address: 192 . 168 . 1 . 254

Port: 0

Work Mode: TCP Client

Net Mask: 255 . 255 . 255 . 0

Gateway: 192 . 168 . 1 . 1

Dest. IP/Domain: 192.168.1.2 Local IP

Dest. Port: 502

Serial

Baud Rate: 57600

Data Bits: 8

Parity: None

Stop Bits: 1

Flow Control: None

Advanced Settings

DNS Server IP: 192 . 168 . 0 . 1

Dest. Mode: Dynamic

Transfer Protocol: Modbus_TCP Protocol

Keep Alive Time: 60 (s)

Reconnet Time: 12 (s)

Http Port: 80

UDP Group IP: 230 . 90 . 76 . 1

Register Pkt: [] ASCII

Restart for no data every 300 Sec.

Enable send parameter every 5 Min.

More Advaced Settings...

Framing Rule

Max Frame Length: 1300 (Byte)

Max Interval(Smaller will better) 3 (Ms)

Get Default Save As Default Load Default Modify Key Firmware/Config Restart Dev Modify Setting Cancel

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