

# 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 with a red box), Work Mode: TCP Server, Net Mask: 255 . 255 . 255 . 0, Gateway: 192 . 168 . 1 . 1, Dest. IP/Domain: 192.168.1.2, 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 with a red box), 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., More Advaced Settings... button.
- 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.

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: 0, Work Mode: **TCP Client** (highlighted with a red box), Net Mask: 255 . 255 . 255 . 0, Gateway: 192 . 168 . 1 . 1, Dest. IP/Domain: 192.168.1.2 (with 'Local IP' button), Dest. Port: **502** (highlighted with a red box).
- 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: (empty) ☐ ASCII, ☐ Restart for no data every 300 Sec., ☐ Enable send parameter every 5 Min., More Advaced Settings... button.
- 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.

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