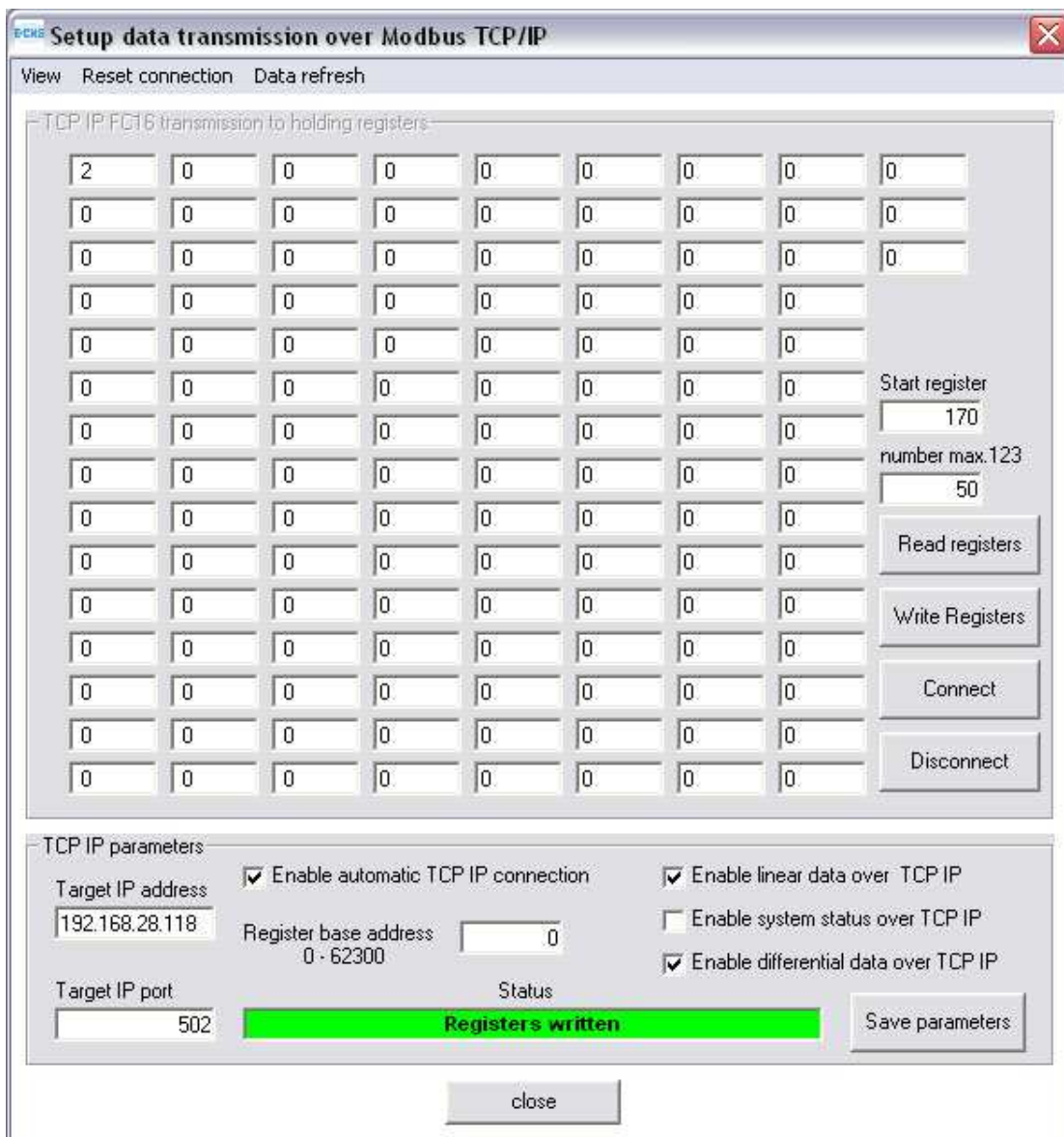


Register map Modbus TCP IP client of BeCOMS Data_Logger software V2.09 E-CMS

If enabled, the BeCOMS Data_Logger software sends all measured values and the system status as Modbus client to a designated Modbus Server. The target IP address and the target port (for Modbus TCP normally 502) can be adjusted in the TCP IP setup window.



Setup data transmission over Modbus TCP/IP

View Reset connection Data refresh

TCP IP FG16 transmission to holding registers

2	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0

Start register 170
number max.123 50

Read registers
Write Registers
Connect
Disconnect

TCP IP parameters

Target IP address 192.168.28.118
Register base address 0 - 62300 0
Target IP port 502
Status

☒ Enable automatic TCP IP connection
☒ Enable linear data over TCP IP
☐ Enable system status over TCP IP
☒ Enable differential data over TCP IP

Registers written

Save parameters

close

The data are transmitted via function code FC16 (write multiple registers) to the servers holding registers. Automatic connection and 3 kinds of data over Modbus TCP can be enabled (data transmission of linear plot data, of differential data and of system status). The register base address can be set up too. The register map looks as follows:

1. data transmission of linear plot data

transmission of 6 register contents :

- base + 0 number of connected BeCOMS systems
- base + 1 Thermo voltage (raw value) in percent of adjusted DC alarm level
- base + 2 engine speed in rpm
- base + 3 Thermo voltage in mA * 100 absolute
- base + 4 Thermo voltage DC effective in percent of adjusted DC alarm level
- base + 5 Thermo voltage AC effective in percent of adjusted AC alarm level

2. data transmission of system status

transmission of 3 register contents :

- base + 6 number of connected BeCOMS systems
- base + 7 system status 1
- base + 8 system status 2

3. data transmission of differential data

transmission of 100 register contents :

- base + 10 number of connected BeCOMS systems
- base + 11 number of cylinders

- base + 12 - 24 values of cylinder speed from 1 – 24 (24 = max. possible cylinder
- base + 35 number of BeCOMS system)
- base + 36- 24 values of RPM differential to mean value 1 - 24
- base + 59

- base + 60 number of connected BeCOMS systems
- base + 61 number of cylinders

- base + 62 - 24 values of thermosignal % from 1 – 24 (24 = max. possible cylinder
- base + 85 number of BeCOMS system)
- base + 86- 24 values of Thermosignal differential to mean value 1 - 24
- base + 109

For every more connected BeCOMS system the base address is additional increased by 110. This means for system number 2 the register map starts at base + 110 and ends at base + 219.