Configuring Modbus TCP

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Version: 1.0.0

A This following guide is to setup the legacy -MBT addon module. Please see CM1-T User Guide to setup the CM1-T.

The user will want to setup the network settings for the Modbus TCP motor. This could include setting a static/dynamic IP and/or a password.

Requirements

To configure a CM1 with Modbus TCP you should have the following

- 1. CM1 motor with -MBT module (e.g. CM1-C-23L20-MBT)
- 2. Control Room (which can be found here)

Configure Network Settings

Two main network settings can be changed

- 1. Static or dynamic (default) IP address
- 2. Network password

When you logon to the Modbus TCP web configuration page there are other Modbus related settings. These should be left as they are. If you reset the module to defaults please refer to the Configuring Modbus section at the bottom of this page.

Logon to the Configuration page

When logging onto the configuration page for the first time there is no password. Follow the steps below to logon.

- 1. Open Control Room and search for the module under the TCP/IP options
- 2. Once the module has been found click "Web Configuration"



3. If using for the first time and you haven't set a password click okay when the security window pops up. - X Windows Security

, and the second	
The server 169.2 server reports th	254.135.30 is asking for your user name and password. The nat it is from (null).
Warning: Your u authentication o	user name and password will be sent using basic on a connection that isn't secure.
	User name Password Remember my credentials
	OK Cancel

Set to Static IP

The motor comes standard with a dynamic IP looking for a DHCP server. If no server is found the module will assign itself and address in the 169.254 range. If the module is plugged directly into a computer it will typically get set in this manner. To assign a static IP use the following step-by-step guide.

- Logon as described above in the logon guide
 Click "Network" in the left panel to open up the Network settings

🖳 Configure Port		83
	Firmware Version: V3.3.0.1GC MAC Address: 00-80-A3-A1-60-A1	
公	Network Settings	
Network		
Server Modbuo Bridgo	Network Mode: Wired Only	
Serial Settings		
Modbus/TCP	Obtain IP address automatically	
Configurable Pins	Auto Configuration Methods	
Apply Settings		
Apply Defaults	DUOP: © Enable O Disable	
	DHCP. Enable Disable	
	AutoIP: Enable Disable 	
	DHCP Host Name:	
	Use the following IP configuration:	
	IP Address: 192.168.1.100	
	Subnet Mask: 255.255.255.0	
	Default Gateway 192 168 1 1	
	OK	
	1	

- a. Select "Use the following IP configuration" and set your required network settings
- b. Click the OK button

3. Click "Apply Settings" in the left column. The unit will now reboot.

Configure Port	
	Firmware Vanian: V330100
	MAC Address: 00-80-AJ-A1-00-A1
<u></u>	
letwork	
Server	Please wait while the configuration is saved
Nodbus Bridge	The unit will reboot in order for the settings to be applied.
Serial Settings	
Modbus/TCP	
onnyurable Phils	
pply Settings	
pply Defaults	

To set back to DHCP or another configuration for a dynamic IP select the "Obtain IP address automatically" radio button.

Set Network Password

The web configuration can be protected with a password.

(1) There is no way to reset the password if it is forgotten without returning the module to the factory.

1. Logon to the web configuration as described above

2.	Click	"Server"	in the	left	column
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	MAC Address: 00-80-A3-A1-60-A1	
<u>ቆ</u>	Server Settings	
Network		
Modbus Bridge	Server Configuration	
Serial Settings	Enhanced Password: 💿 Enable 🔘 Disable	
Configurable Pins	Telnet/Web Manager	
Apply Settings	Retype Password:	
Apply Defaults	Advanced	
	ARP Cache Timeout	
	ICP Keepalive (secs): 45	
	CPLI Performance Mode: Claw Poquiar Cliab	
	HTTP Server Port 90	
	MTH General 1400	
	MTO SIZE. 1400	
	TCP Re-transmission timeout (ms): 500	
	ОК	
	Taskla radia buttan an "Esbangad Dessuard"	
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Configuring Modbus

1 This section is relevant if a user has clicked "Apply Defaults" on the web interface. The module will have arrived with the correct Modbus TCP settings. Do not change Modbus settings unless instructed to my a Myostat engineer.

1. Click "Serial Settings" a. changed the Baud Rate to 38400 b.

Configure Port		
	Eirmware Version: V3.3.0.1GC	
	MAC Address: 00.90 A3 A1 50 A1	
Ar.		
企 Naturali	Serial Settings	
Server		
Modbus Bridge	Port Settings	
Serial Settings	Channel: 1 Interface: RS232	
Modbus/TCP	David Extra 29400 VI Data Dita: 2 VI Davity Nana VI Stan Dita: 1 VI	
Configurable Pins	Badu nate. Johou V Data Bits. 0 V Parity. None V Stop Bits. 1 V	
Apply Settings	Flow Control Outer Active Always V Delay before Hold after ms Transmit(4): ms	3
Apply Defaults	Delay after	
	Flow Control In: Wait til Active (2): No Y Active (3): ms	5
	Modem Control Out. Active Always	
		_
	Modbus	
	Protocol: RTU ASCI Character Timeout: 50 ms (0-auto)	
	Tx Delay after Rx: 0 ms Message Timeout: 5000 ms	
	OK	
		_

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- 2. Select "Modbus/TCP" a. Change "Fixed Slave Address" to 1

Configure Port	
	Firmware Version: V3.3.0.1GC MAC Address: 00-80-A3-A1-60-A1
ຜ	Serial Settings
Network	
Server Modbus Bridge	Port Settings
Serial Settings	Channel: 1 III Interface: RS232
Modbus/TCP	Baud Brite: 38400 Data Bits: 8 Parity: None V Ston Bits: 1 V
Configurable Pins	Delay before Hold after
Apply Settings	Flow Control Out Active Always Transmit (1): ms Transmit(4): ms
Apply Defaults	Flow Control In: Wait til Active (2): No V Delay after
	Modem Control Out: Active Always
	Hadhus
	Brataash @ DTH @ 4001
	Tx Delay after Rx: 0 ms Message Timeout: 5000 ms

3. Click "Apply Settings"

The Modbus TCP module has now been set to correctly communicate with the motor.