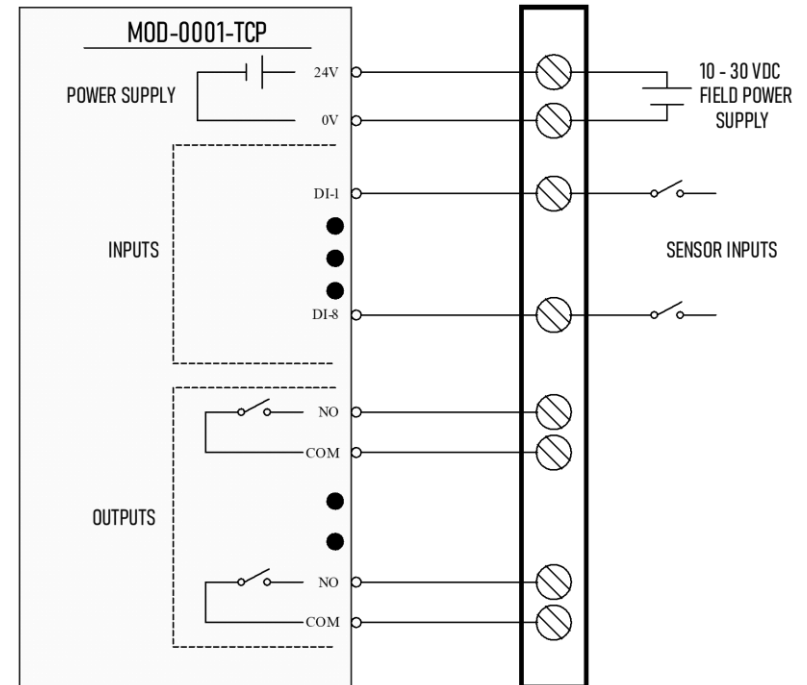


**MANUAL FOR
MOD-TCP-001
Rev. A**

TECHNICAL SPECIFICATIONS

| Network Specifications | |
|------------------------|--------------------------------|
| Network interface | Ethernet 10/100Base-T |
| Protocol | Modbus TCP |
| Digital Inputs | |
| Channels | 8 |
| Input Voltage | 10-30V |
| Sample Time | 100 KHz |
| Digital Outputs | |
| Channels | 4 |
| Type | 1 Form A (SPST-NO) |
| Max Switching Current | 10 A (125 V AC), 5 A (30 V DC) |
| Max Voltage | 250 V AC, 30 V DC |
| Power Supply | |
| Power Supply Voltage | 10-30VDC |
| Current Consumption | 350mA |

WIRING DIAGRAMS



■ MODBUS REGISTERS

| MODBUS REGISTERS | | | |
|------------------|---------|-----------------|--------|
| REGISTER | DECIMAL | DESCRIPTION | ACCESS |
| 0x00B0 | 176 | Node ID | RO |
| 0x00B1 | 177 | Power UP | RO |
| 0x00B2 | 178 | Digital Outputs | RO |
| 0x00B3 | 179 | Digital Inputs | RO |
| 0x00A0 | 160 | Input 1 | RO |
| 0x00A1 | 161 | Input 2 | RO |
| 0x00A2 | 162 | Input 3 | RO |
| 0x00A3 | 163 | Input 4 | RO |
| 0x00A4 | 164 | Input 5 | RO |
| 0x00A5 | 165 | Input 6 | RO |
| 0x00A6 | 166 | Input 7 | RO |
| 0x00A7 | 167 | Input 8 | RO |
| 0x00FA | 250 | Output 1 | R/W |
| 0x00FB | 251 | Output 2 | R/W |
| 0x00FC | 252 | Output 3 | R/W |
| 0x00FD | 253 | Output 4 | R/W |

- 176: Node ID :
Contains the Modbus address of the device.
- 177 : Power Up Status:
When this register is set to 1 the outputs of this device are closed at power up, when set to 0 (Default) the outputs are open.
- 178 : Digital Outputs:
This register allows control of all outputs at once. Each bit is an output.
- 179 : Digital Inputs:
This register allows control of all inputs at once. Each bit is an input.
- 160 – 167 : Inputs:
Gives the status of the corresponding input number.
- 250 – 253 : Outputs:
Set this register to 0 or 1 to close or open its corresponding output number.
- Supported modbus functions:
Read coil – 0x01
Read discrete inputs – 0x02
Read holding register – 0x03
Write single coil – 0x05
Write multiple coils – 0x0f

■ WEB SERVER

This device includes a web server in order to check or modify the status of its inputs and outputs.

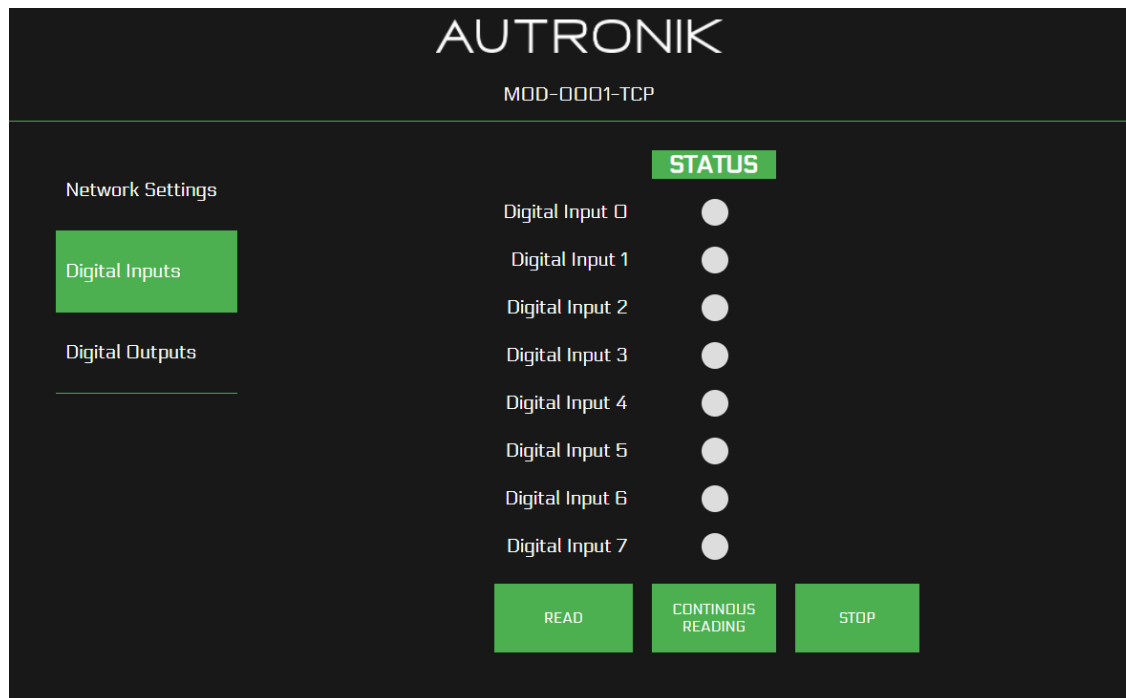
The web server also allows the user to modify the network settings required for the device communication.

The default Network configurations are as follows:

- IP Address: 192.168.1.100
- Modbus Address: 1
- By default the device has the DHCP enabled, this means that if available the IP Address is given by the DHCP server.

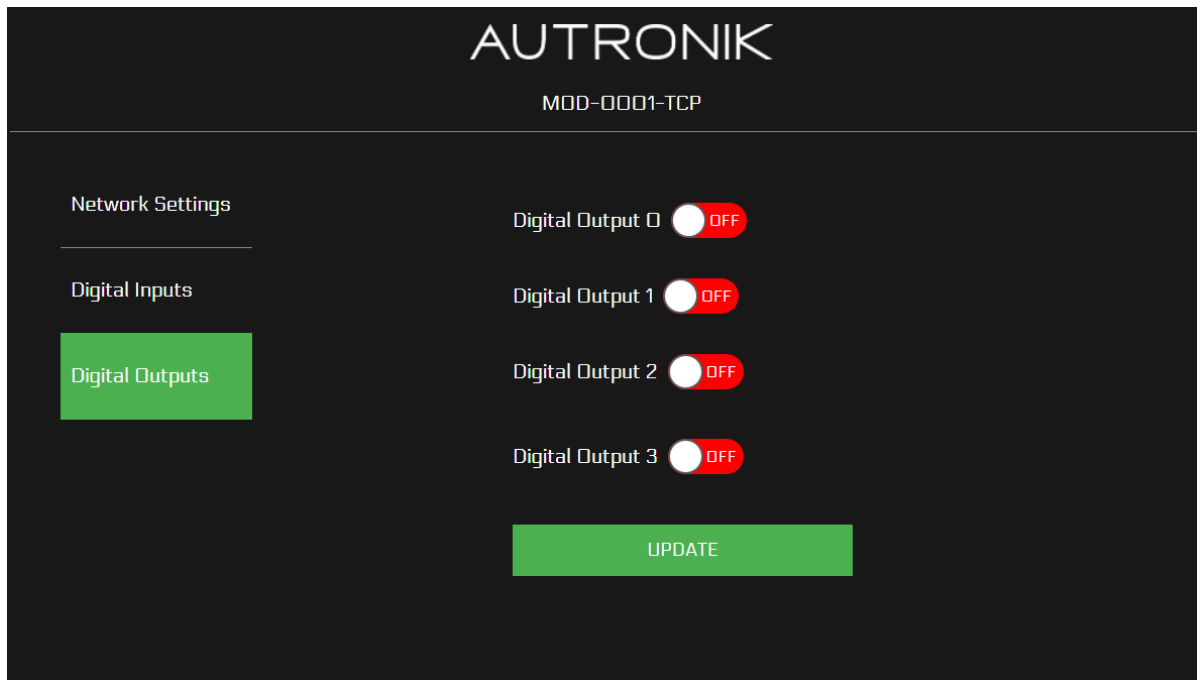
■ WEB SERVER: DIGITAL INPUTS

The digital inputs page allows the user to read the inputs of the device. When clicked in the “READ” Button the server samples the inputs of the device once and displays its status., when clicked in “CONTINUOUS READING” the server samples the inputs continuously until the user clicks in the “STOP” button.



▪ WEB SERVER: DIGITAL OUTPUTS

The digital outputs page allows the user to close or open each digital output in the device. In order to modify the status of each output click on the corresponding output switch button and then click on the “UPDATE” button.



■ WEB SERVER: NETWORK SETTINGS

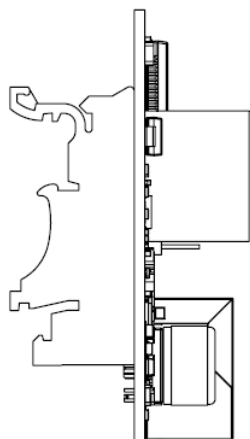
The network settings page allows the user to modify the communications configuration for the device. In order to modify a setting the user needs to modify the corresponding setting and then click on the “SAVE” button(The web browser may need to be restarted in order for the changes to apply).

The screenshot displays the 'Network Settings' page of the AUTRONIK MOD-0001-TCP web interface. The page has a dark background with white text. On the left, there is a sidebar with three menu items: 'Network Settings' (highlighted in green), 'Digital Inputs', and 'Digital Outputs'. The main content area on the right contains several configuration fields, each with a label and an input field: 'IP Address', 'Subnet Mask', 'Gateway Mask', 'MAC Address', 'Device Name', and 'Enable DHCP' (which includes a checkbox). A green 'SAVE' button is positioned at the bottom right of the configuration area.

| Setting | Value |
|--------------|--------------------------|
| IP Address | <input type="text"/> |
| Subnet Mask | <input type="text"/> |
| Gateway Mask | <input type="text"/> |
| MAC Address | <input type="text"/> |
| Device Name | <input type="text"/> |
| Enable DHCP | <input type="checkbox"/> |

SAVE

MECHANICAL DIMENSIONS



UNIVERSAL
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MOUNTING

