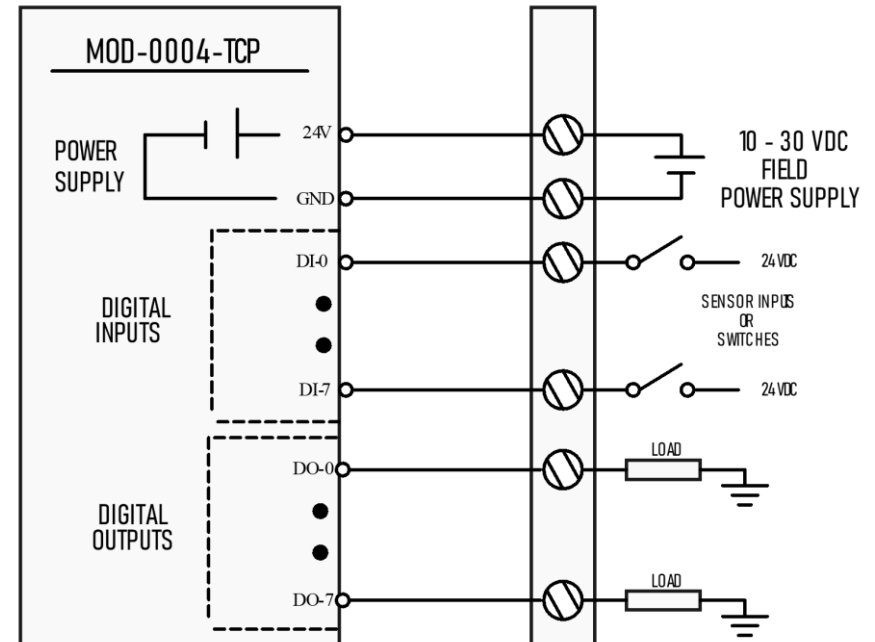


# **MANUAL FOR MOD-0007-TCP**

## ■ 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	8
Type	Sourcing
Load Current	0.6A
Output Voltage	24VDC
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	R/W
0x00B3	179	Digital Inputs	R/W
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
0x00C0	192	Output 1	R/W
0x00C1	193	Output 2	R/W
0x00C2	194	Output 3	R/W
0x00C3	195	Output 4	R/W
0x00C4	196	Output 5	R/W
0x00C5	197	Output 6	R/W
0x00C6	198	Output 7	R/W
0x00C7	199	Output 8	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.
- 192– 199: Outputs:  
Set this register to 0 or 1 to close or open its corresponding output number.

## ■ WEB SERVER

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

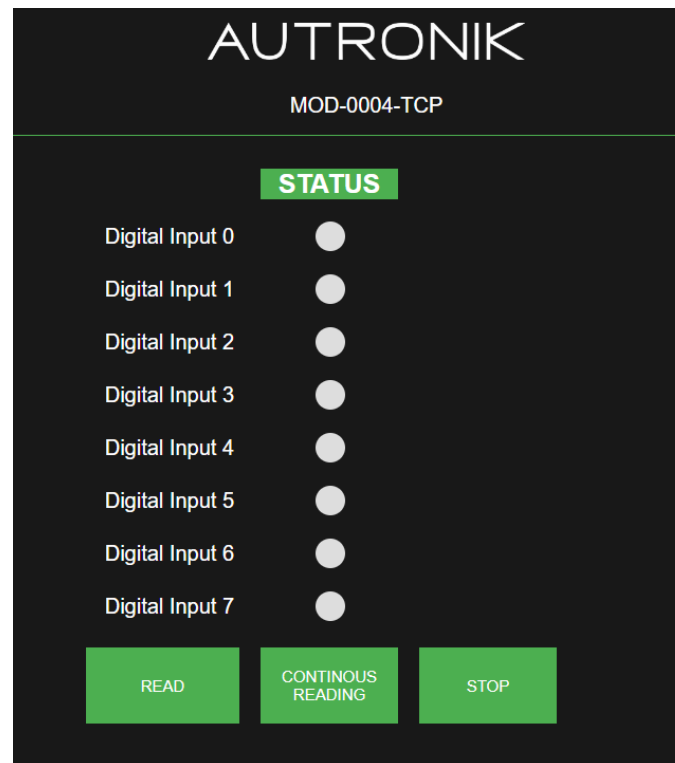
The web server also allows the user to modify the network settings required for the device communication.

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.

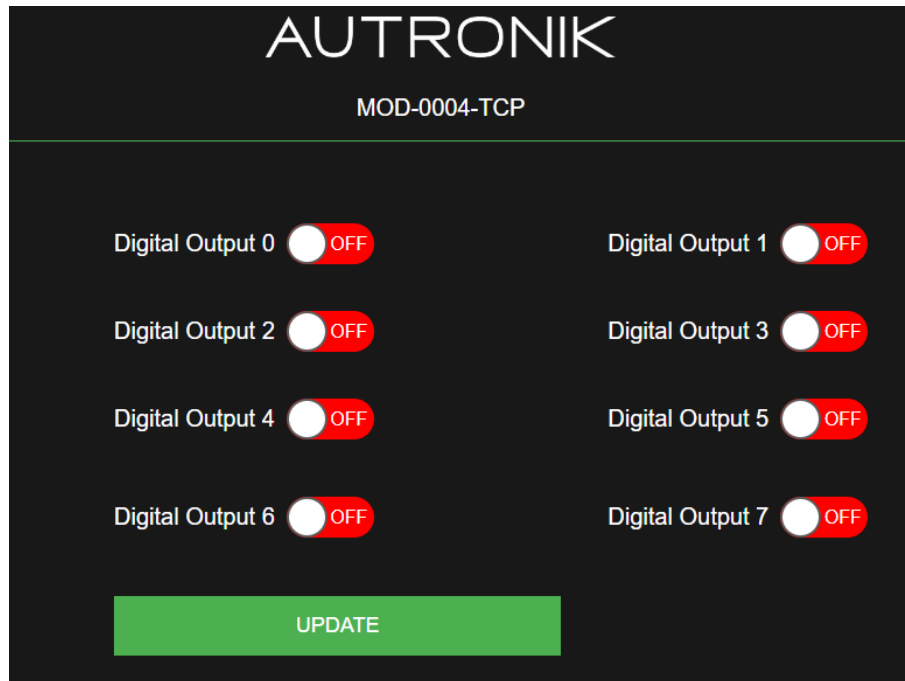
## ▪ WEB SERVER: DIGITAL INPUTS

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.



The screenshot displays the AUTRONIK MOD-0004-TCP web interface. At the top, the brand name 'AUTRONIK' and model 'MOD-0004-TCP' are shown. Below this, there are eight digital output controls arranged in two columns. Each control consists of a label (e.g., 'Digital Output 0') and a red toggle switch with a white circle and the word 'OFF'. At the bottom of the interface is a large green button labeled 'UPDATE'.

Output Label	Status
Digital Output 0	OFF
Digital Output 1	OFF
Digital Output 2	OFF
Digital Output 3	OFF
Digital Output 4	OFF
Digital Output 5	OFF
Digital Output 6	OFF
Digital Output 7	OFF

UPDATE

## ■ 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 AUTRONIK MOD-0001-TCP web interface. At the top, the brand name 'AUTRONIK' and model 'MOD-0001-TCP' are shown. A left-hand navigation menu contains three items: 'Network Settings' (highlighted in green), 'Digital Inputs', and 'Digital Outputs'. The main content area is titled 'Network Settings' and contains the following configuration fields:

- IP Address: A white text input field.
- Subnet Mask: A white text input field.
- Gateway Mask: A white text input field.
- MAC Address: A white text input field.
- Device Name: A white text input field.
- Enable DHCP: A checkbox, currently unchecked.

A green 'SAVE' button is positioned at the bottom right of the configuration area.

## MECHANICAL DIMENSIONS

