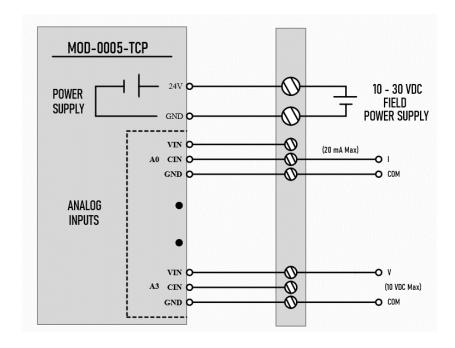
MANUAL FOR MOD-0005-TCP Rev. A

AUTRONIK

TECHNICAL SPECIFICATIONS

Network Specifications			
Network interface	Ethernet 10/100Base-T		
Protocol	Modbus TCP		
Analog Inputs			
Channels	4		
Input Current (Max)	20mA		
Input Voltage (Max)	10V		
Accuracy			
Current Offset Error	± 20uA		
Voltage Offset Error	± 10mV		
Thermal Drift	12 ppm/°C		
Power Supply			
Power Supply Voltage	10-30VDC		
Current Consumption	350mA		

WIRING DIAGRAMS





MODBUS REGISTERS

MODBUS REGISTERS			
REGISTER	DECIMAL	DESCRIPTION	ACCESS
0x2710	10000	Node ID	R0
0x2711	10001	Power UP	R0
0x2712	10002	Analog Input 0 Type	R/W
0x2713	10003	Analog Input 1 Type	R/W
0x2714	10004	Analog Input 2 Type	R/W
0x2715	10005	Analog Input 3 Type	R/W
0x2716	10006	Analog Input 0 Value	R
0x2717	10007	Analog Input 1 Value	R
0x2718	10008	Analog Input 2 Value	R
0x2719	10009	Analog Input 3 Value	R

■ 10000: Node ID:

Contains the Modbus address of the device.

■ 10001: Power Up Status:

When this register is set to 2 the inputs of this device are set to current mode, when set to 1 (Default) the inputs are set to voltage mode.

• 10002 - 10005 : Analog Inputs Type:

This register allows change the analog input type (Current mode or voltage mode) of the respective channel.

■ 100006 - 10009: Analog Inputs Values:

This register store the current value of each respective inputs.

Supported modbus functions:
 Read Holding Register - 0x03
 Write Single Register - 0x06

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: 192.168.100.10
- Modbus Address: 1
- By default the device has the DHCP enabled, this means that if available the IP Adddress is given by the DHCP server.

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MODBUS REGISTERS DESCRIPTION

- 10002: Analog Input Type 0
- 10003: Analog Input Type 1
- 10004: Analog Input Type 2
- 10005: Analog Input Type 3

Change the input type the cannel to "current mode" or "voltage mode" see values table.

- 10006: Analog Input Value 0
- 10007: Analog Input Value 1
- 10008: Analog Input Value 2
- 10009: Analog Input Value 3

Change the Value of each analog output value.

The value of input current in the register is in uA: 20,000 = 20mA. The value of input voltage in the register is in mV: 10,000 = 10V.

Output Type			
TYPE	VALUE(HEX)	VALUE(DEC)	
Voltage	0x00	1	
Current	0×01	2	

Output Value			
VALUE	REGISTER VALUE(HEX)	REGISTER DECIMAL	
5V	0x1388	5000	
2.5mA	0x09C4	2500	



WEB SERVER: ANALOG INPUTS

The analog inputs page allows the user to read and modify the "Type" and "Value" of each Analog output channel.

		AUTRONIK MOD-0002-TCP			
		WIOD-OOUZ-TCP			
Network Settings		Output Typ	oe	Value	
Analog Outputs	Analog Output O	10v	V	0.0	
	Analog Output 1	20mA	V	0.0	
	Analog Output 2	1□v	V	0.0	
	Analog Output 3	20mA	V	0.0	
		WRITE		READ	



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.

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	MOD-0001-TCP			
Network Settings	IP Address			
	Subnet Mask			
Digital Inputs	Gateway Mask			
Digital Outputs	MAC Address			
	Device Name			
	Enable DHCP	•		
		SAVE	l	

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MECHANICAL DIMENSIONS

