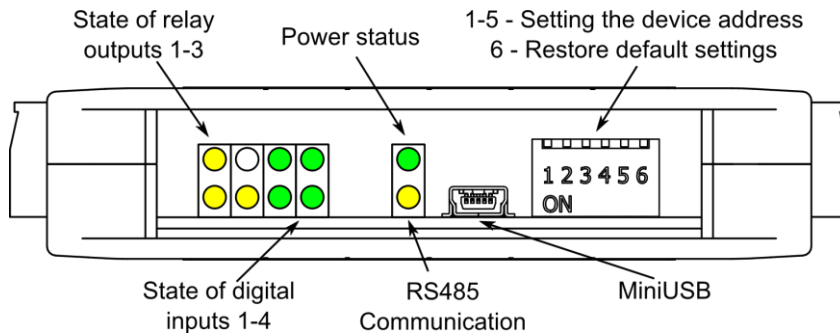


## SFAR-S-ETH



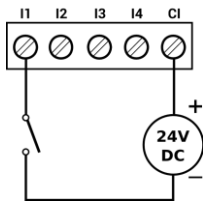
SPECIFICATION		
Supply	Voltage	10-38 V DC; 10-28 V AC
	Power consumption	7 W @ 24 V DC 9 VA @ 24 V AC
Digital inputs	4x, logical "0": 0-3 V, logical "1": 6-36 V	
Relay outputs	Isolation 3650 Vrms	
	3x Relay outputs	
	Resistive load AC1: 3 A @ 230 V AC or 3 A @ 30 V DC	
	Inductive load AC3: 75 VA @ 230V AC or 30 W @ 30 V DC	
Interface	Contact material AgSnO <sub>2</sub>	
	RS485, up to 128 devices on the bus	
Transmission speed	Ethernet 10/100 Mbps	
Ingress Protection	IP40 – for indoor installation	
Temperature	Operating -10°C - +50°C; Storage - 40°C - +85°C	
Relative humidity	5 to 95% RH (without condensation)	
Connectors	Max 2.5 mm <sup>2</sup>	
Dimension	119,1 mm x 101 mm x 22,6 mm	
Mounting	DIN rail mounting (DIN EN 50022)	
Housing material	Plastic, self-extinguishing PC/ABS	

### TOP PANEL



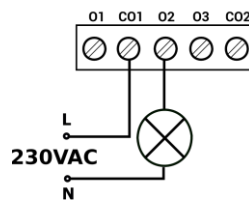
### DIGITAL INPUTS

#### Connection of input

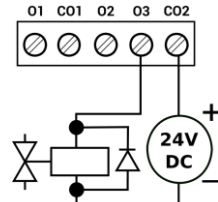


### RELAY OUTPUTS

#### Connection of resistive load

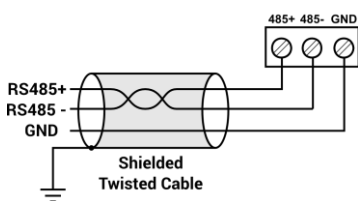


#### Connection of electrovalve



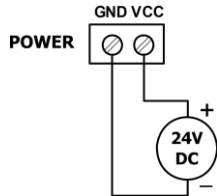
### COMMUNICATION

#### RS485 Communication

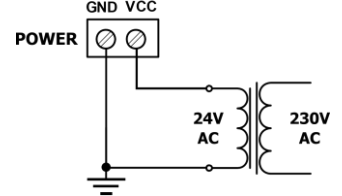


### POWER SUPPLY

#### DC Voltage



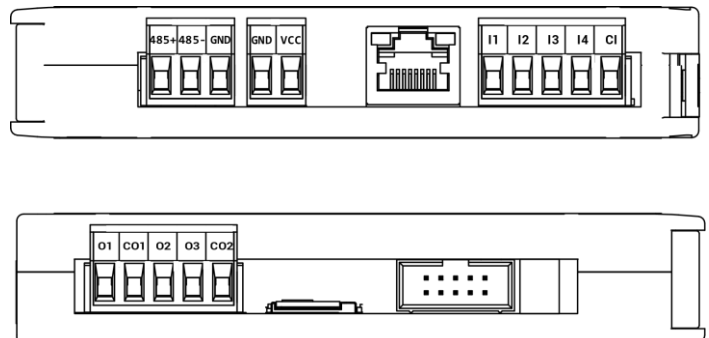
#### AC Voltage



### WARNING

- Note, an incorrect wiring of this product can damage it and lead to other hazards. Make sure the product has been correctly wired before turning the power ON.
- Before wiring, or removing/mounting the product, be sure to turn the power OFF. Failure to do so might cause electric shock.
- Do not touch electrically charged parts such as the power terminals. Doing so might cause electric shock.
- Do not disassemble the product. Doing so might cause electric shock or faulty operation.
- Use the product within the operating ranges recommended in the specification (temperature, humidity, voltage, shock, mounting direction, atmosphere etc.). Failure to do so might cause fire or faulty operation.
- Firmly tighten the wires to the terminal. Insufficient tightening of the wires to the terminal might cause fire

### TERMINALS OF THE DEVICE



# Registered access

Address Modbus	Address Dec	Address Hex	Register Name	Access	Description
30001	0	0x00	Version/Type	Read	Version and Type of the device
30002	1	0x01	Address	Read	Module address MOD-ETH
40003	2	0x02	Baud rate	Read & Write	Transmission speed
40004	3	0x03	Stop bits	Read & Write	Stop bites
40005	4	0x04	Parity	Read & Write	Bit od parity
40007	6	0x06	Modbus Mode	Read & Write	Modbus protocol type
40009	8	0x08	Watchdog	Read & Write	Function watchdog for outputs [ms]
40013	12	0x0C	Default Outputs State	Read & Write	Default state of outputs lit bit → input included
40014	13	0x0D	Operating mode	Read & Write	Modbus mode TCP 0 – Device Table; 1 – Gateway Modbus TCP
40015	14	0x0E	Question Slow	Read & Write	Frequency question in mode Device Table [ms]
40016	15	0x0F	Question Normal	Read & Write	Frequency question in mode Device Table [ms]
40017	16	0x10	Question Fast	Read & Write	Frequency question in mode Device Table [ms]
40033	32	0x20	Received packets LSB	Read & Write	The amount of received packets
40034	33	0x21	Received packets MSB	Read & Write	
40035	34	0x22	Incorrect packets LSB	Read & Write	The amount of received incorrect packets
40036	35	0x23	Incorrect packets MSB	Read & Write	
40037	36	0x24	Sent packets LSB	Read & Write	The amount of sent packets
40038	37	0x25	Sent packets MSB	Read & Write	
30051	50	0x32	Inputs	Read	Connected inputs lit bit → input connected
40052	51	0x33	Outputs	Read & Write	Alarm outputs Bit 8 and 9 digital outputs
30053	52	0x34	Counter 0 LSB	Read	32-bits counter 0
30054	53	0x35	Counter 0 MSB	Read	
30055	54	0x36	Counter 1 LSB	Read	32-bits counter 1
30056	55	0x37	Counter 1 MSB	Read	
30057	56	0x38	Counter 2 LSB	Read	32-bits counter 2
30058	57	0x39	Counter 2 MSB	Read	
30059	58	0x3A	Counter 3 LSB	Read	32-bits counter 3
30060	59	0x3B	Counter 3 MSB	Read	
40061	60	0x3C	Reset counters	Read & Write	Reset counters lit bit → counter reset