

- ❖ Compatible with MODBUS-RTU RS485
- ❖ Measuring range from -40°C to $+80^{\circ}\text{C}$
- ❖ Accuracy of $\pm 0.5^{\circ}\text{C}$ in the range from -10°C to $+80^{\circ}\text{C}$

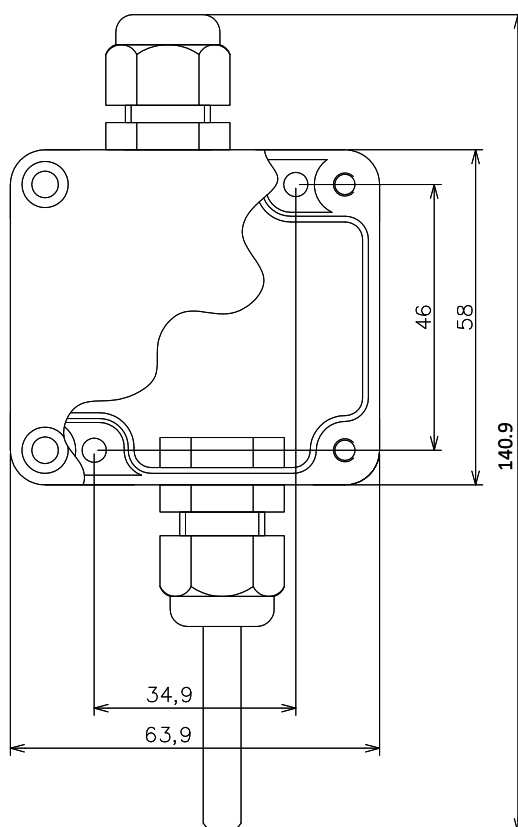
PRODUCT NAME	CODE	SUPPLY
IPSEN-T3-MOD	5-201-284	12 VDC



Technical Parameters

	Parameter	Value	Unit	Note
RS485 MODBUS	Quantity	1		
	Speed	Max. 115.2	kbps	Default
	Overvoltage Protections	30	A	8/20 μs
Supply	Input	10 - 16	VDC	
	Consumption	max. 0.5	W	
Measurement accuracy	Temperature	± 0.5	$^{\circ}\text{C}$	In the range -10°C to $+85^{\circ}\text{C}$
Environment	Operational Range	$-40...+80$	$^{\circ}\text{C}$	Temp. of Environment
	Measuring range	$-40...+80$	$^{\circ}\text{C}$	
	Degree of Coverage	IP55		
Parameters	Weight	0.12	kg	
Certification	Standard CE			
The producer retains the right to change any technical parameters without previous written or published notification.				

Dimensions



1. Mounting

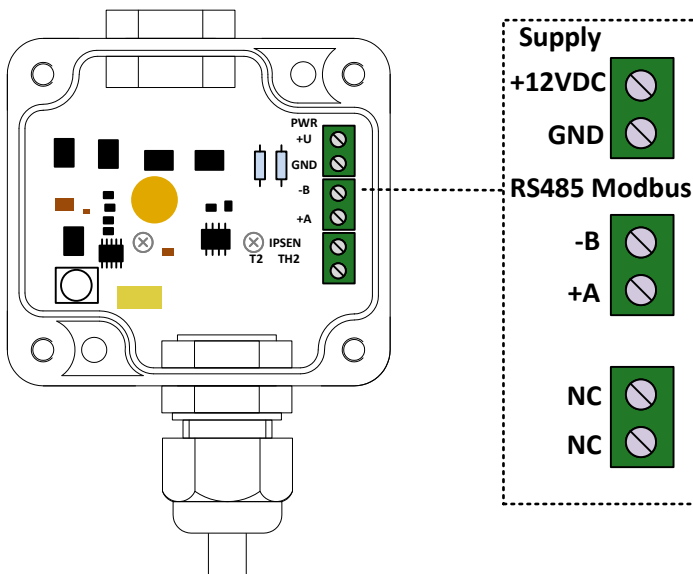
Mount the sensor to a flat surface. All the necessary screws are included.

2. Connect supply

Unscrew the upper board. According to the pictures below, connect the power supply 12 VDC. Connection of the power supply is indicated by LED PWR switching on.

3. Connect RS485 MODBUS

According to the pictures below, connect the communication RS485 Modbus. Screw the upper board back on.

IPSEN-TH3-MOD - ports

REV:
202210 – Default

Default Settings of Communication

Device ID: 1 | Baudrate: 115 200 | Parity: None | Data bits: 8 | Stop bits: 1

Modbus Registers

Subject			Type	R/W	Value	Offset
Device	FW Version Major		u16	R		1010
	FW Version Minor		u16	R		1011
	FW Version - Revision		u32	R		1012–13
	Reset		u16	RW	55203 = To Reboot	1201
	Board Power Voltage		u16	R	105 = 10,5V	1311
BUS Settings	Baudrate		u16	RW	192 = 19.2 kbps 1152 = 115.2 kpbs	2110
	Databits		u16	RW	8 = 8b, 9 = 9b	2111
	Parity		u16	RW	78 = None 69 = Even 79 = Odd	2112
	Stopbits		u16	RW	10=1, 20=2, 15=1,5	2113
	MODBUS address		u16	RW	1 - 247	2120
Subject		Channel	Type	R/W	Value	Offset
Measured, Correction	Temperature	AI#01	s16	R	100 = 10 °C	5001
	Temperature Correction	AI#01	s16	RW	100 = 10 °C	5101