

Enapter ENP-CS Module Datasheet



Conductivity Measurement Module

The Conductivity Measurement Module is used to receive data from Enapter conductivity sensor (ENP-SENSE-TDS) with a 0...10 V signal and temperature sensor. The Conductivity Measurement Module sends the collected data to the Enapter Gateway and Cloud via secure wireless connection.

Enapter ENP-CS Module is based on Enapter ENP-AI4-50V Module.

Technical Data

Voltage	9...24 V DC
Connected sensors number	1 x Conductivity sensor (ENP-SENSE-TDS) 1 x Temperature sensor (PT1000)
Wireless Communication	Wi-Fi 2.4 GHz Bluetooth 4.0 LE
Antenna connection type	SMA-F (module) – SMA-M (antenna)
Local signaling	1 LED (green) steady – correct operation blinking – establishing connection with server
	1 LED (red) module error
Current consumption	50 mA 12 V DC, max. 300 mA
Mounting	35 mm Din rail acc. to IEC 60715
Height	90.2 mm (3.55 inch)
Depth	57.5 mm (2.26 inch)
Width	36.3 mm (1.43 inch)
Net weight	0.090 kg

Environmental Conditions

Ambient air temperature for operation	-40...+60 °C
Ambient air temperature for storage	-40...+60 °C
Relative humidity for operation	20...90 %, without condensation
Relative humidity for storage	20...90 %, without condensation
Operating altitude	0...2000 m
Storage altitude	0...3500 m
Pollution degree	2
IP degree of protection	IP20

Connected device

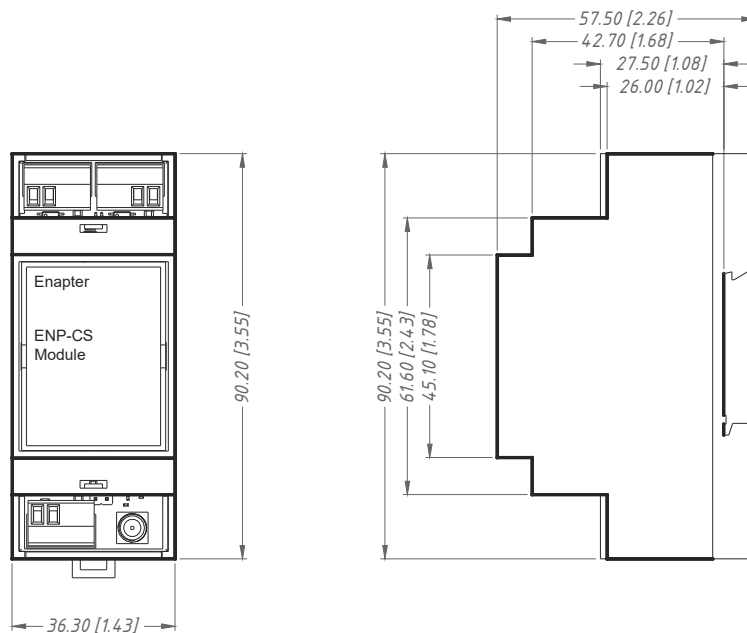
Type	Conductivity sensor (ENP-SENSE-TDS)
Connection	Screw terminal block
Signal	0...10 V
Signal resolution	16 bit
Galvanic isolation	Group, from controller circuits

Analog Temperature Sensor

Type	PT1000
Sensor	PT1000 Class B
Connection	Screw terminal block

Dimensions

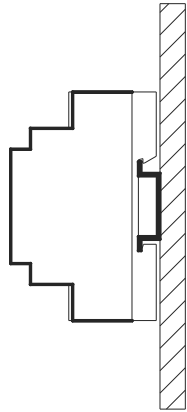
The dimensions are in mm and in brackets in inch.



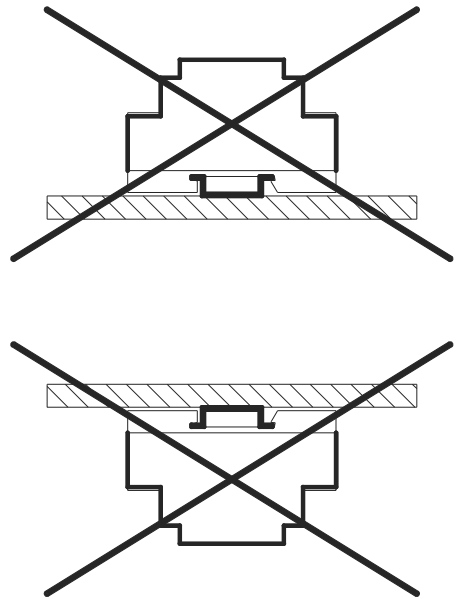
Mounting

The ENP-CS Module must be horizontally mounted on 35 mm DIN rail according to IEC 60715.

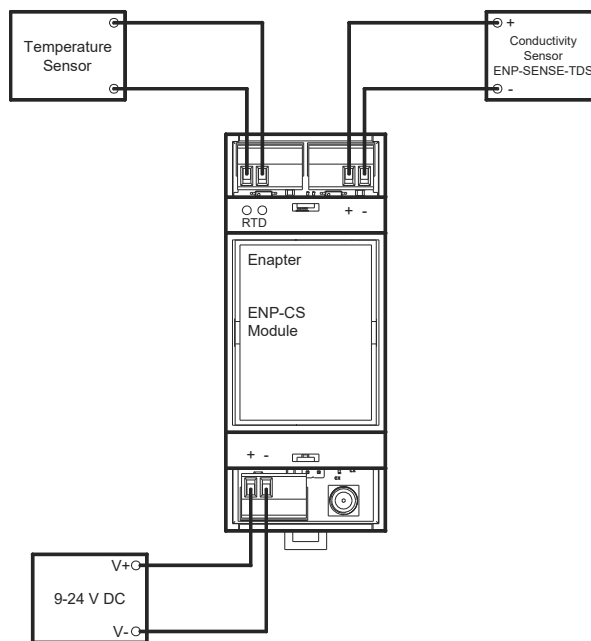
Correct Mounting Position



Incorrect Mounting Position



Connection Examples



Note: 1 Amp Circuit Breaker recommended to use on power line for the ENP-CS Module.

Standards

Wi-Fi protocols – 802.11 b/g/n/e/i (802.11n up to 150 Mbit/s).

Bluetooth protocols – Bluetooth v4.2 BR/EDR and BLE specification.



Alternating current voltage of 110 – 220 V is potentially lethal!



All works on assembly and installation should be performed only with a disconnected power supply!



The installation and assembly of electrical equipment must be carried out by electrically qualified persons.

The appearance of the product may differ from the images presented on the website or in this manual. The discrepancy between the appearance and packaging of the goods with a picture and description on the website or this manual is not an indication of poor quality goods. The manufacturer reserves the right to make changes to the design and packaging of the product without prior notice.