# **Enapter ENP-AI4-20MA Module Datasheet**

Enapter	
Analog nput	Error
lip for setup	

#### **Analog Input Module**

The Analog Input Module is used to receive data from analog devices with a 0...20 mA signal, RS-485 interface and Wireless connection is used for communication with the module. For example: a valve, a sensor and others. The Analog Input Module sends the collected data to the Enapter Gateway and Cloud via secure wireless connection.

### **Technical Data**

Voltage	924 V DC
Connected sensors number	4 x Analog sensors
Wireless Communication	Wi-Fi 2.4 GHz
	Bluetooth 4.0 LE
Integrated connection type	Isolated RS-485 interface
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**

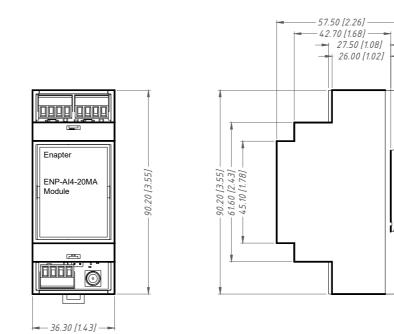
Ambient air temperature for operation	-40+60 °C
Ambient air temperature for storage	-40+60 °C
Relative humidity for operation	2090 %, without condensation
Relative humidity for storage	2090 %, without condensation
Operating altitude	02000 m
Storage altitude	03500 m
Pollution degree	2
IP degree of protection	IP20

#### **Connected device**

Туре	Valve
	Sensor
	And others
Connection	Screw terminal block
Signal	020 mA
Signal resolution	16 bit
Galvanic isolation	Group, from controller circuits

#### Dimensions

The dimensions are in mm and in brackets in inch.

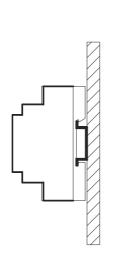


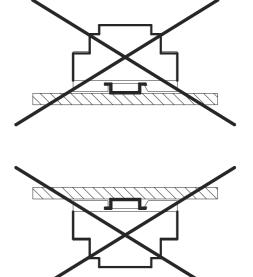
#### Mounting

The ENP-AI4-20MA Module must be horizontally mounted on 35 mm DIN rail according to IEC 60715.

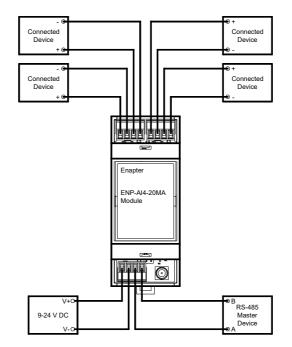
#### **Correct Mounting Position**

**Incorrect Mounting Position** 





#### **Connection Examples**



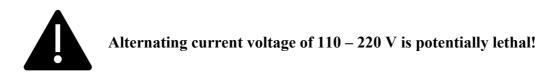
Note: 1 Amp Circuit Breaker recommended to use on power line for the ENP-AI4-20MA Module.

#### Enapter

#### 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.





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.

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