# **Enapter ENP-RS485 Module Datasheet**



#### **RS-485 Module**

The RS-485 Module is used to read data from devices such as inverters, ventilation systems, valves, irradiance sensors, power meters and others. The RS-485 Module sends the collected data to the Enapter Gateway and Cloud via secure wireless connection.

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# **Technical Data**

Voltage	960 V DC
Wireless Communication	Wi-Fi 2.4 GHz
	Bluetooth 4.0 LE
Integrated connection type	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	18.1 mm (0.71 inch)
Net weight	0.050 kg

# **Environmental Conditions**

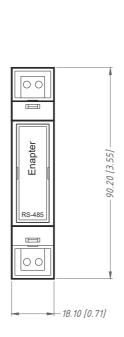
Ambient air temperature for operation	-40+60 °C
Ambient air temperature for storage	-40+60 °C
Relative humidity for operation	2090 %, without condensation
Relative humidity for storage	2090 %, without condensation
Operating altitude	02000 m
Storage altitude	03500 m
Pollution degree	2
IP degree of protection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

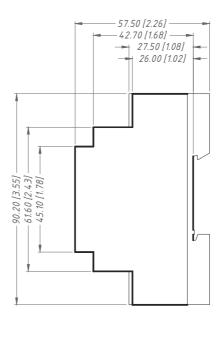
## **Connected device**

Туре	Inverter
	Ventilation system
	Valve
	Irradiance sensor
	Power meter and others
Voltage supply	960 V DC when module and device
	powered from shared power supply
Connection	2-pin screw terminal block

# **Dimensions**

The dimensions are in mm and in brackets in inch.

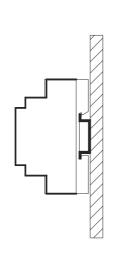




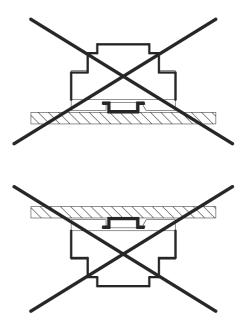
#### **Mounting**

The ENP-RS485 Module must be horizontally mounted on 35 mm DIN rail according to IEC 60715.

**Correct Mounting Position** 



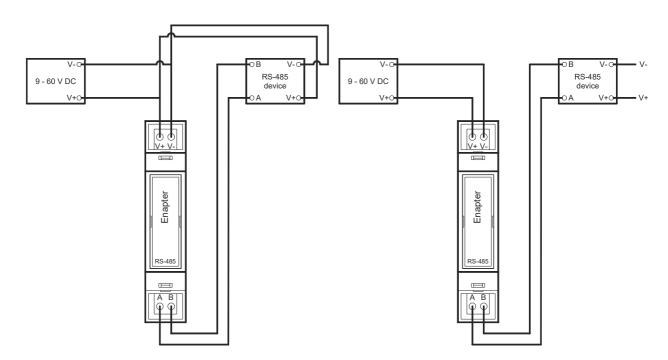
**Incorrect Mounting Position** 



## **Connection Examples**

Module and device powered from shared power supply.

Module and device powered from independent power supplies.



Note: 1 Amp Circuit Breaker recommended to use on power line for the ENP-RS485 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.

## Warnings



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.

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