Enapter ENP-RS232-VED Module Datasheet



RS-232-VED Module

The RS-232-VED Module monitor and manage Victron Energy Inverters with RS-232 port and VE.Direct Protocol. It sends the collected data to the Enapter Gateway and Cloud via secure wireless connection. The RS-232-VED Module is based on Enapter RS-232 Module.

To connect the ENP-RS232-VED Module to Victron Energy Inverters you need the Victron Energy VE.Direct to RS232 Cable.

The connection cable to the Victron Energy VE.Direct to RS232 Cable is required additional 5 V DC power supply.

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Technical Data

Voltage	960 V DC			
Standardized Wire Gauge	AWG 17 (1 sqm ²)			
Wireless Communication	Wi-Fi 2.4 GHz, Bluetooth 4.0 LE			
Integrated connection type	RJ-10/4P4C			
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

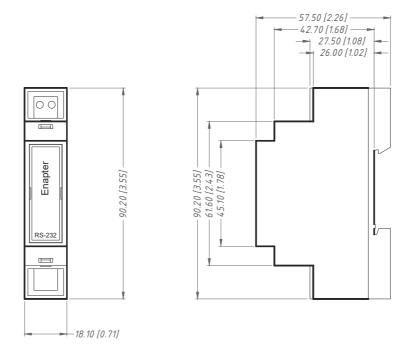
Ambient air temperature for operation	-40+60 °C		
Ambient air temperature for storage	-40+60 °C		
Relative humidity for operation	2090 %, without condensation		
Relative humidity for storage	2090 %, without condensation		
Operating altitude	02000 m		
Storage altitude	03500 m		
Pollution degree	2		
IP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

Connected device

Type	Victron Energy Inverters	
Connection to Module	RJ-10/4P4C	
Connection to VE.Direct to RS232 Cable	DB9-M (required 5 V DC power supply)	
Connection Cable Length	1.0 m	

Dimensions

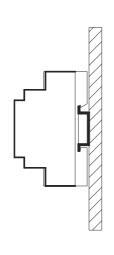
The dimensions are in mm and in brackets in inch.



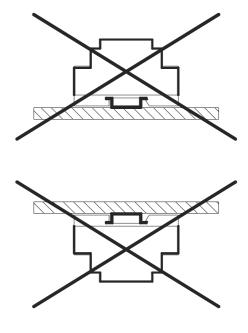
Mounting

The ENP-RS232-VED Module must be horizontally mounted on 35 mm DIN rail according to IEC 60715.

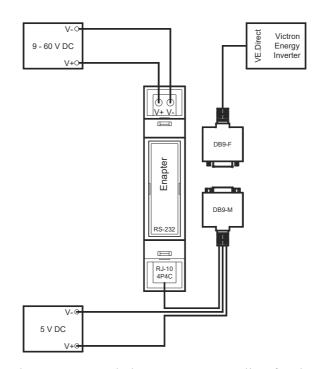
Correct Mounting Position



Incorrect Mounting Position

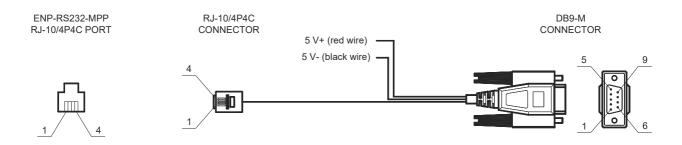


Connection Example



Note: 1 Amp Circuit Breaker recommended to use on power line for the ENP-RS232-VED Module.

Connection Cable Pinout



ENP-RS232-VED RJ-10/4P4C PORT PIN	RJ-10/4P4C PIN/SIGNAL			B9-M SIGNAL
4	1	GND	5	GND/5 V-
3	2	GND		
			4	5 V+
2	3	TXD	3	TXD
1	4	RXD	2	RXD

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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.

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.

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