Enapter ENP-DI7 Module Datasheet



Digital Input Module

Digital Input Module is used to monitor the status of discrete signals such as contactors, relays and others. ENP-DI7 Module can work in wet or dry contact modes (set by the jumper inside the module). The Digital Input Module sends the collected data to the Enapter Gateway and Cloud via secure wireless connection.

Technical Data

Voltage	924 V DC
Wireless Communication	Wi-Fi 2.4 GHz
	Bluetooth 4.0 LE
Integrated connection type (optional)	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 digital device

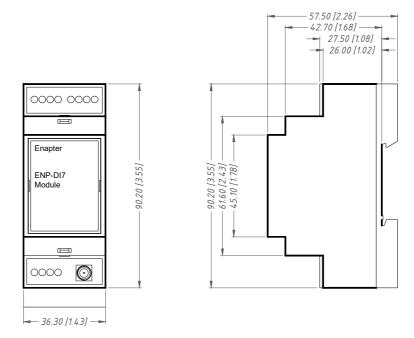
Туре	Signal lamp
	Intermediate contactor
	and others
Number of connected devices	Up to 7
Connection	Screw terminal block
Galvanic isolation	Group, from controller circuits
Wet contact voltage	12 V
Dry contact voltage	12 – 24 V

Connected RS-485 device (optional)

Туре	Inverter
	Ventilation system
	Valve
	Irradiance sensor
	Power meter and others
Voltage supply	924 V DC when module and RS-485
	device powered from shared power supply
Connection	2-pin screw terminal block

Dimensions

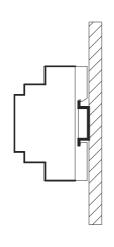
The dimensions are in mm and in brackets in inch.



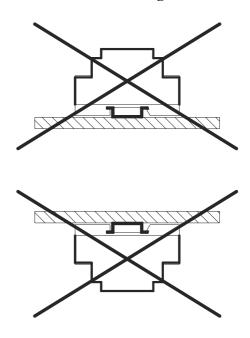
Mounting

The ENP-DI7 Module must be horizontally mounted on 35 mm DIN rail according to IEC 60715.



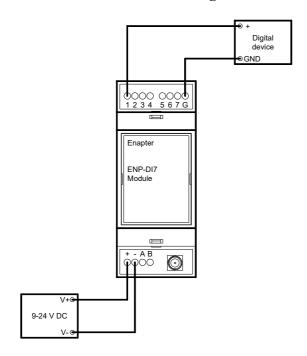


Incorrect Mounting Position



Connection Examples

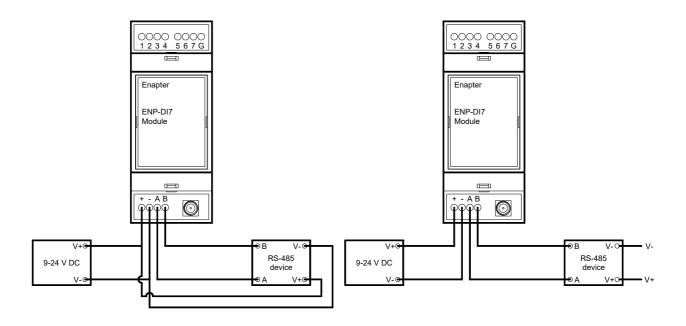
Module connected to Digital device.



Optional RS-485 Device connection.

Module and RS-485 device powered from shared power supply.

Module and RS-485 device powered from independent power supplies.



Note: 1 Amp Circuit Breaker recommended to use on power line for the ENP-DI7 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.

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.