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# Circutor ePick GPRS VPN Gateway Data Box User Manual

**ePick GPRS VPN**
**GATEWAY PARA PLATAFORMA DataBox**
**GATEWAY FOR DataBox PLATFORM**

This manual is a ePick GPRS VPN installation guide. For further information, please download the full manual from the CIRCUTOR web site: **www.circutor.com**

## ⚠ IMPORTANT!

The unit must be disconnected from its power supply sources before undertaking any installation, repair or handling operations on the unit's connections. Contact the after-sales service if you suspect that there is an operational fault in the unit. The unit has been designed for easy replacement in case of malfunction.

The manufacturer of the unit is not responsible for any damage resulting from failure by the user or installer to heed the warnings and/or recommendations set out in this manual, nor for damage resulting from the use of non-original products or accessories or those made by other manufacturers.

## DESCRIPTION

ePick GPRS VPN is a gateway designed to communicate with machines and sensors, collect and store their data and send it to the web for processing.

The device communicates via GPRS, has Ethernet, RS-485 and includes a SIM card with VPN communications to provide a 100% two-way connection without the need for configuration.

The ePick GPRS VPN always communicates with the DataBox platform via GPRS.

## INSTALLATION

The ePick GPRS VPN has been designed for assembly on DIN rail.

## ⚠ IMPORTANT!

Take into account that when the device is connected, the terminals may be hazardous to the touch, and opening the covers or removing elements may provide access to parts that are dangerous to the touch. Do not use the device until it is fully installed.

The device must be connected to a power circuit protected by gL (IEC 60269) or M class fuses between 0.5 and 2A. It must be fitted with a circuit breaker or equivalent device to disconnect the device from the power supply.

The ePick GPRS VPN can be connected to a device (machines, sensors …) via Ethernet or RS-485:

√ Ethernet:

A category 5 or higher network cable is required for the Ethernet connection.

√ RS-485:

The connection via RS-485 requires a twisted communication cable to be connected between terminals A+, B- and GND.
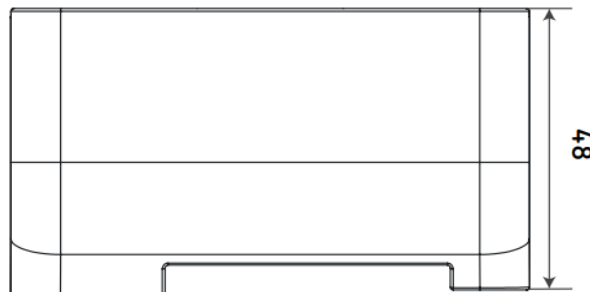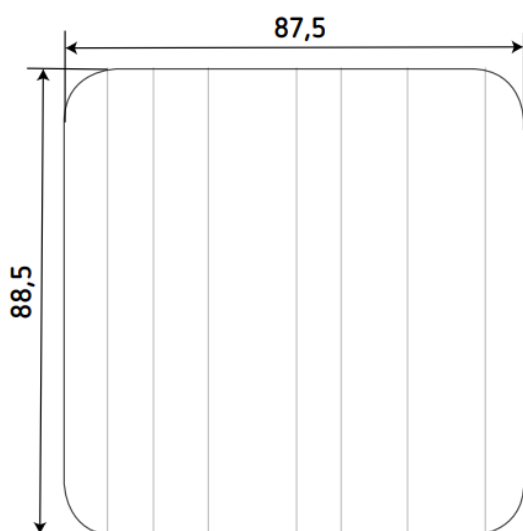
## START-UP

The device must be configured from the Circutor Databox web platform, after it is connected to the auxiliary power supply (terminals L and N). See Instruction Manual M382B01-03-xxx.
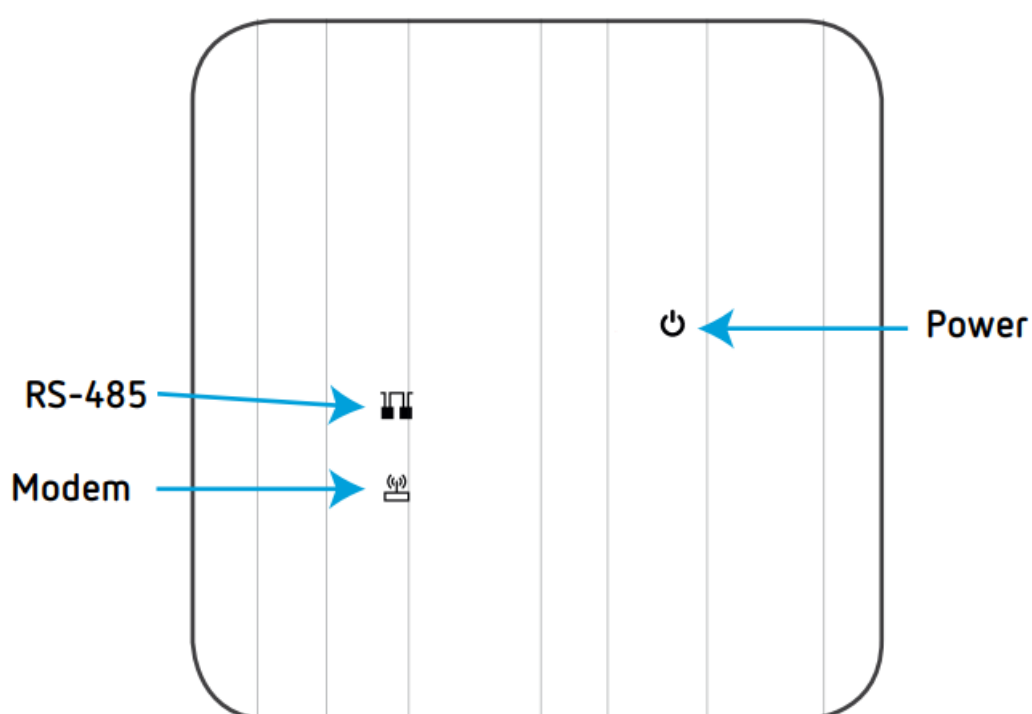
**Technical features**

| | |
|---|---|
| Power supply | CA /AC CC/DC |
| Rated voltage | 85 … 264V — 120… 300V = |
| Frequency | 47 … 63 Hz – |
| Consumption | 8.8 …10.5 VA 6.4 … 6.5 W |
| Installation category | CAT III 300 V CAT III 300 V |
| Radio connection | |
| External antenna | Incluida /Included |
| Connector | SMA |
| SIM | Incluida / Included |
| RS-485 Communications | |
| Bus | RS-485 |
| Protocol | Modbus RTU |
| Baud rate | 9600-19200-38400-57600-115200 bps |
| Stop bits | 1-2 |
| Parity | sin – par -impar/ none – even -odd |
| Ethernet Communications | |
| Type | Ethernet 10/100 Mbps |
| Connector | RJ45 |
| Protocol | TCP/IP |
| Secondary service IP address | 100.0.0.1 |
| User interface | |
| LED | 3 LED |
| Environmental features | |
| Operating temperature | -20°C … +50°C |
| Storage temperature | -25°C … +75°C |
| Relative humidity (non-condensing) | 5 … 9 5% |
| Maximum altitude | 2000 m |
| Protection degree IP | IP20 |
| Protection degree IK | IK08 |
| Pollution degree | 2 |

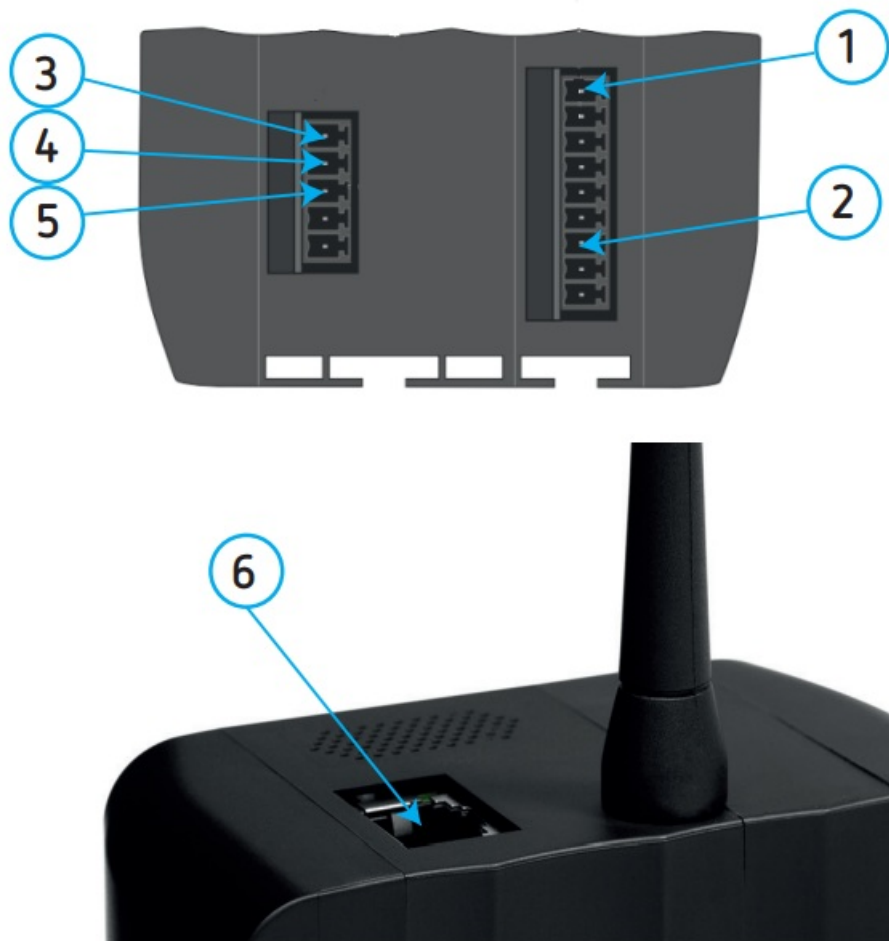| | |
|---|---|
| Use | Interior/ Indoor |
| Mechanical features | |
| Terminals |  |
| 1 … 5 | 1.5 mm2 0.2 Nm ⊘ M2 |
| Dimensions | 87.5 x 88.5 x 48 mm |
| Weight | 180 g. |
| Surround | Policarbonato UL94 VO autoextinguible<br>Polycarbonate UL94 Self-extinguishing VO |
| Attachment | Card DIN/ DIN rail |
| Electrical safety | |
| Protection against electric shock | Doble aislamiento clase II / Double insulation class II |
| Isolation | 3 kV- |



**Dimensions**

| LEDs | |
|---|---|
| Power | Device status |
| | ON |
| | Green color Device ON |
| RS-485 | ON |
| | Red color:Data transmission |
| Modem | ON |
| | Communications status |
| | Red color:Data transmission |
| | Green color:Data reception |



**Note:** Device images are for illustrative purposes only and may differ from the actual device.

| Terminal connections designations | |
|---|---|
| 1 | VI,  Power supply |
| 2 | N,  Power supply |
| 3 | B-, RS-485 Connection |
| 4 | A+,  RS-485 Connection |
| 5 | GND,  RS-485 Connection |
| 6 | Ethernet,  Ethernet Connection |

Technical service
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M382A01-44-23A

## Documents / Resources

| | **Circutor ePick GPRS VPN Gateway Data Box** [pdf] User Manual<br>ePick GPRS VPN Gateway Data Box, ePick GPRS VPN, Gateway Data Box, Data Box, Box |
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