Circutor ePick GPRS NET DataBox Gateway Instruction Manual

ePick GPRS NET
GATEWAY FOR Data Box PLATFORM

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ePick GPRS NET Data Box Gateway

This manual is a ePick GPRS NET 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 NET 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 features Ethernet and RS-485. ePick GPRS NET can communicate with the DataBox platform via GPRS or via the customer's Ethernet/router.

INSTALLATION

The epic GPRS NET 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 epic GPRS NET 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.
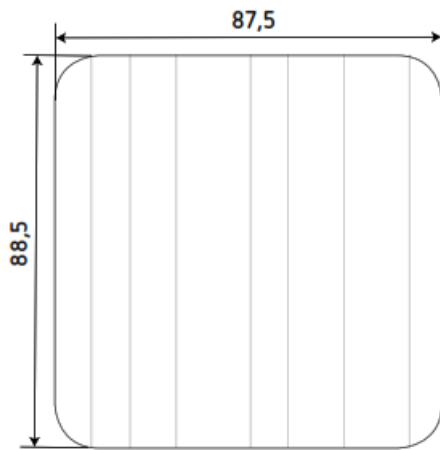
START-UP

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 … 264 V ~	120… 300 V ===
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	Included	
Connector	SMA	
SIM	Not included	
RS-485 Communications		
Bus	RS-485	
Protocol	Modbus RTU	
Baud rate	9600-19200-38400-57600-115200 bps	
Stop bits	1-2	
Parity	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	-20ºC … +50ºC	

Storage temperature	-25ºC … +75ºC
Relative humidity (non-condensing)	5 … 95%
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	Polycarbonate UL94 Self-extinguishing V0
Attachment	Carrel DIN / DIN rail
Electrical safety	
Protection against electric shock	Double insulation class II
Isolation	3 kV~
Norma's	
UNE-EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4	

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

LEDs		
Power	Device status	
	ON	
	Green color: Device ON	
RS-485	RS-485 Communications status	
	ON	
	Red color: Data transmission ***Green color***: Data reception	
Modem	Communications status	
	ON	
	Red color: Data transmission ***Green color***: Data reception	
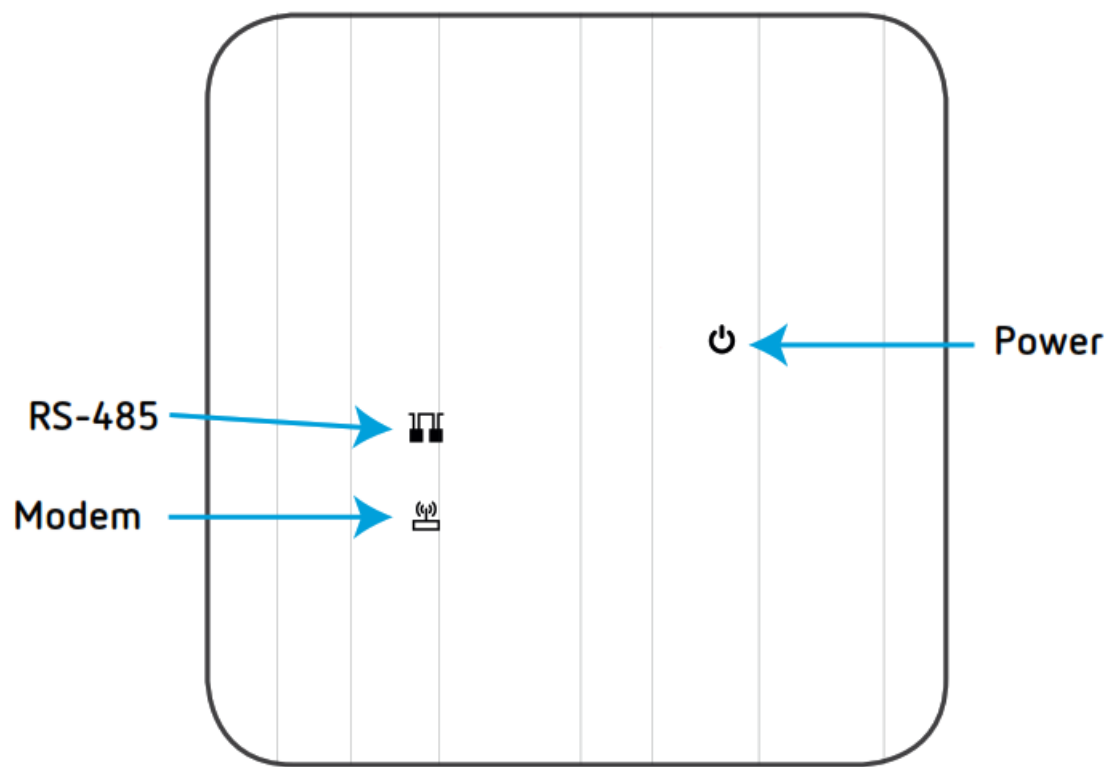
Terminal connections designations	
1	**V1**, Power supply
2	**N**, Power supply
3	**B-**, RS-485 Connection
4	**A+**, RS-485 Connection
5	**GND**, RS-485 Connection
6	**Ethernet**, Ethernet Connection
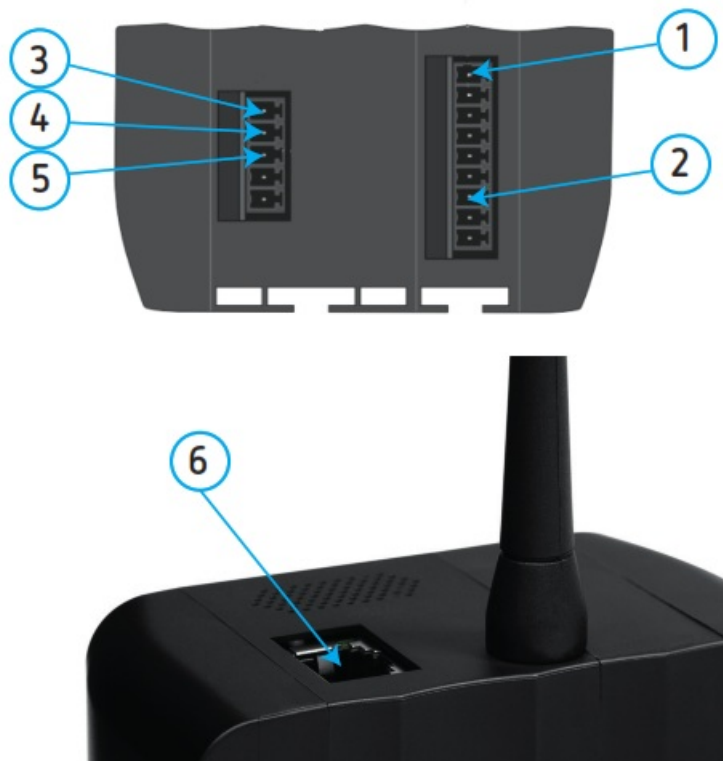
Documents / Resources

	Circutor ePick GPRS NET DataBox Gateway [pdf] Instruction Manual ePick GPRS NET, ePick GPRS NET DataBox Gateway, DataBox Gateway, Gateway

Manuals+,