PICK 3G

Pick 3G is a gateway designed to communicate with machines and sensors, collect and store their data and send it to the website for their treatment.

The gateway's main feature is the communication using 3G, which can be swapped to GPRS when there's no 3G network coverage.

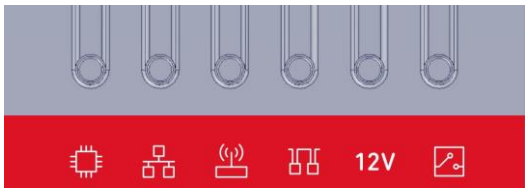
Pick 3G has an internal and an external antenna with a switch to select which one is going to be used. The modem adds an Ethernet port, RS-485, an auxiliary 12 V tension output and a relay output.

Finally, Pick 3G can communicate to EVO platform through 3G/GPRS or Ethernet.

TECHNICAL CHARACTERISTICS

Power circuit	
Input voltage	85 … 265 Vac / 120 ... 300 Vdc
Maximum consumption	6.5 … 9.5 VA / 3.5 … 4.2 W
Auxiliary output voltage	12 Vdc
Auxiliary output voltage maximum power	1 W
Environmental conditions	
Temperature range	-10 …. +60ºC
Humidity range	5 …. 95%
Mechanical characteristics	
Enclosure material	Plastic UL94 – V0 Self-extinguishable
Protection grade	IP30
Unit dimensions (Width x Height x Length)	152 x 150 x 44 mm
Weight	130 g
Mounting	Wall mounting / DIN Rail with an accessory
Maximum working altitude	2000 m
Radio connection	
Internal antenna	Yes
External antenna connector	Yes
Modem	
SIM	Not included
Ethernet	1 port 10/100
Serial port	1 port RS-485
External antenna type	SMA female
Characteristics and electrical security	
Security	CAT III 300 V under EN 61010
Electric shock protection	Double insulation class II
Standards	
Standards	UNE EN 61010-1:2010, UNE-EN 61000-6-2, UNE-EN 61000-6-4

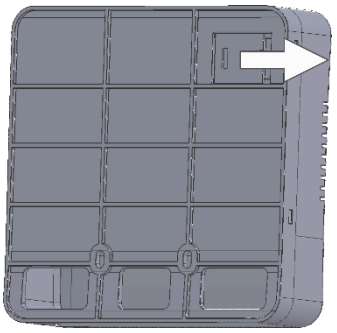
CONNECTIONS AND LEDS



Led	Description	
	CPU Activity	Activity: Blinking green
	Ethernet	Connection and traffic: Blinking green
		Only connection: Green
		Without connection: Off
	Connectivity	3G connection in progress: Green led blinks slowly
		3G connection established: Green led on
		2G connection in progress: Red led blinks slowly
		2G connection established: Red led on
		Without connection: Red led blinks fast
	RS-485	Data transmission: Red
		Data reception: Green
12V	12VDC Output	12 Vdc voltage: Green
	Relay	Activated: Green

INSTALLATION

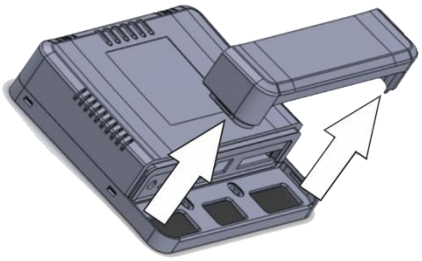
1 SIM placement or Ethernet connection

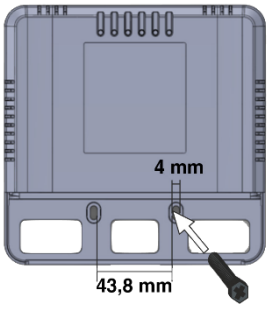


- PICK 3G has two communication modes, using the 3G module or the Ethernet port. To communicate by 3G, you should insert your SIM card (with PIN deactivated) in the slot located at device's back, removing the cover and inserting the card as shown in the figure. To communicate by Ethernet, connect a category 5 network cable or higher from your device/router to the gateway.
- To load the factory configuration, power the device and press the Reset button for 5-10 seconds. This will lead the device to be re-accessible by IP 192.168.1.1 to change any configuration setting

2 Montage

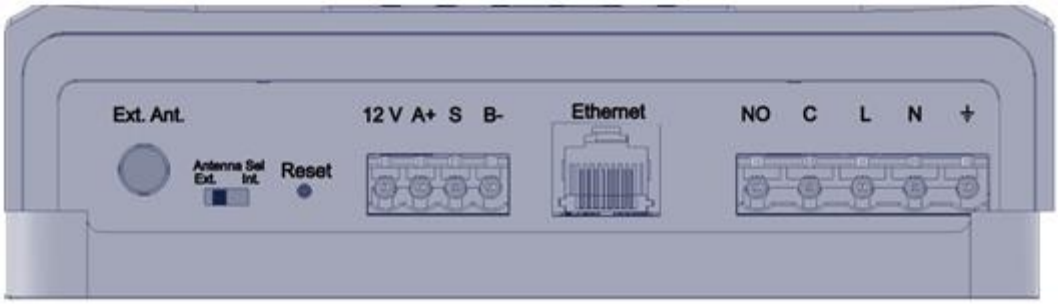
- Enter your hand at the bottom of the case and pull up to remove the connection zone protection.
- Remove the connectors, put the device on the installation plane surface, mark the holes and attach the device





3 Power

- Connect the plugs L and N to a power outlet. Lay the cables through the bottom of the case or use the case back holes.



4 Device setup

- By default, the device has IP 192.168.1.1 which can be changed at control panel accessed through this IP. Once inside the panel, you should choose the communication mode between 3G and Ethernet and configure the parameters of the mode selected. When you've finished, save changes and reset your gateway.

5 3G signal

- Once the device is configured, check that the CPU and Modem leds start to blink.
- The device register to the 2G/3G network may take between 1 and 5 minutes depending on the coverage. The process will have finished when Modem led stop blin- king (review the led codification table for more information).
- If you want to gain signal strength you need to connect an auxiliary an- tenna to the external connector and change de switch to EXT position as you can see in the figure.

6 Devices connection

- To communicate by Ethernet, connect a category 5 network cable or higher from your Modbus/TCP RS-485 converter to the gateway.
- To communicate using RS-485, connect a twin twisted cable between plugs A+ and B-, and follow the connection standard rules based on RS-485 communications.

7 Checks and register

- To finish your gateway installation, you should access https://evo.pickdata.net, join with you user account and register your device using Register button of Hardware menu. You could find the information needed to complete the register at the device label.

- If you have a problem during the installation you can contact us at: http://www.pickdata.net/support

MODEL REFERENCE

Model	Reference	Protocol	Communication
Pick 3G	G003	Modbus/RTU Modbus/TCP	RS-485 Ethernet 3G/GPRS

EXTERNAL ANTENNA REFERENCE

In case that an external antenna is needed:

Model	Reference	Cable length	Connector type
Antenna wall-mounted indoor	E001	2 meters	SMA Male
Antivandal antenna IP67 multi-band LORA/4G 1 mt	E032	1 meter	SMA Male

SAFETY PRECAUTIONS

	**DANGER** Warns of a risk, which could result in personal injury or material damage caused by an incorrect handling or installation of the unit. In particular, handling with voltages applied may result in electric shock, which may cause death or serious injury to personnel. Defective installation or maintenance may also lead to the risk of fi re. Read the manual carefully prior to connecting the unit. Follow all installation and maintenance instructions throughout the unit's working life. Pay special attention to the installation standards of the National Electrical Code.

DISCLAIMER

PickData, SL reserves the right to make modifications to the device or the unit specifications set out in this instruction manual without prior notice.

PickData, SL on its web site, supplies its customers with the latest versions of the device specifications and the most updated manuals.

MAINTENANCE AND TECHNICAL SERVICE

Device doesn't require maintenance.
In the case of any query in relation to unit operation or malfunction, please contact the PickData, SL technical support service.

PickData, SL – Technical support service
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