Bridge Quick Guide

Cloud-Based Monitoring for Existing Basement Pump Systems

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NEWTON CLOUD

POWERED BY 3ms

Green. Powerful. Solutions.

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IMPORTANT

This document is the Installation Manual for the Bridge Hardware. For commissioning and activation instructions on the Newton Cloud please see the Cloud Installation Guide and Cloud Distribution Guide.

INCLUDED WITHIN THE PACKAGING

The Bridge Monitoring System is supplied in one box and includes:

- 1 x Bridge Quick Guide (this document)
- 1 x Cerbo GX Mk2 unit within packaging
- 2 x RJ45 Cables
- Optional 12V DC power supply - if ordered

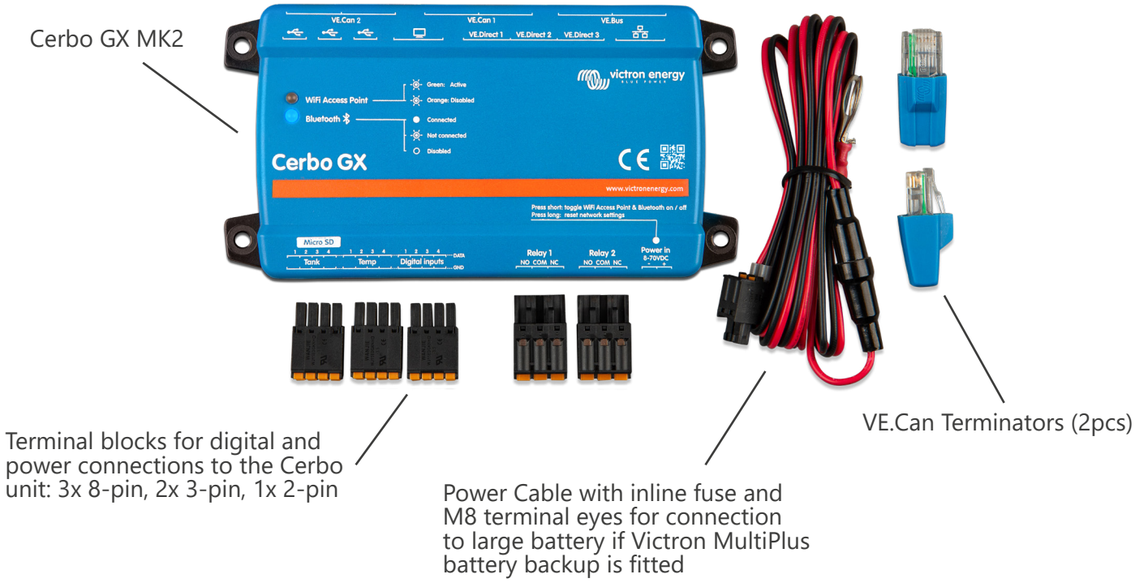
ENVIRONMENT

This product should be installed in a dry, indoor space. Avoid the presence of chemicals, synthetic components, curtains or other textiles, etc., in the immediate vicinity.

WARNING: Do not install within damp environments or where insect infestation is possible as both of these can cause electrical shorting which is not covered by the product warranty.

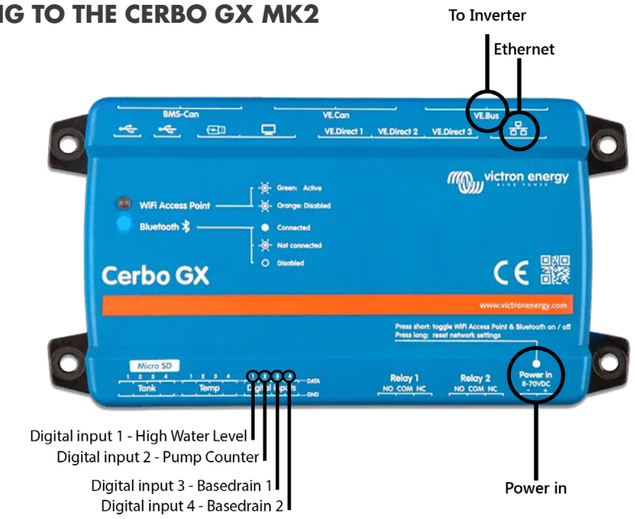
INSTALLING THE CERBO GX MK2

Unbox the Cerbo GX MK2 unit. The Victron box contains the following:



Mount the Cerbo GX unit securely using the appropriate fixings (not included), adjacent to the pumping system or pump control equipment it will be receiving signals from.

CONNECTING TO THE CERBO GX MK2

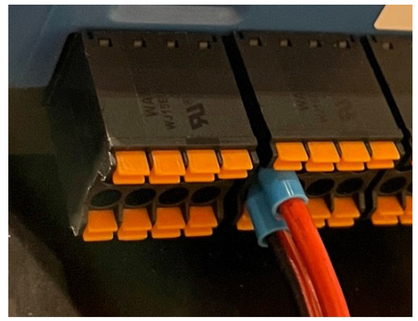


DIGITAL CONNECTIONS

Connect digital inputs as follows:

- Digital Input 1 - Alarm output of existing pumping system or 0-volt out from pump control panel
- Digital Input 2 - Optional pump count float - Normally open position
- Digital Input 3 - Optional BaseDrain float
- Digital Input 4 - Optional BaseDrain float

These connections can be made using one of the three 8-pin connector blocks provided. To insert cables into the connector, use a small flat-bladed screwdriver to depress the orange lever as you push the cable into the adjacent terminal hole. The terminals are designed to take both solid and stranded conductors. Bootlace ferrules can be added if preferred.



POWERING THE CERBO GX - DIRECTLY FROM LARGE DC BATTERY

The device is powered by using the Power in V+ connector. It accepts 8 to 70V DC. The device cannot be powered from any of the other connections.

The supplied DC power cable includes an inline 3.15A slow blow fuse. If the DC voltage exceeds 60V, the Cerbo GX is classified as a "built-in product". Installation should be in such a way the user cannot touch the terminals.

The included power cable with inline fuse is intended for direct connection to the terminals of the large DC battery of the battery backup systems where installed. Push the fitted 2-pin power terminal block into the power terminals of the Cerbo unit.

If no battery backup system is present within the system, then the optional DC power supply should have been purchased at the time of order and included within the packaging. If this was overlooked, this will need to be purchased separately. Purchase code PA7.

Use a small flat bladed screwdriver to push onto the orange tabs to open the terminals of the 2-pin power block and remove the battery lead. Then, repeat this process and insert the ferruled ends of the supplied two-core power cable into the 2-pin power block, ensuring that polarity is correct. Red = positive (+) and black = negative (-).

Where the optional 12VDC power supply is used, using the screwdriver to open the terminals, insert the ferruled ends of the two-core cable into the terminal block, ensuring that the intermittent white striped cable is within the positive (+) terminal.

Polarity is confirmed on the front of the unit, above the respective terminal connectors.

Check polarity is correct and then insert the power block into the two-pin power terminal of the Cerbo, which is the furthest right of the terminals.

Within a few seconds the unit will power up, indicated firstly by the WIFI Access Point light flashing orange and then green, followed by the blue Bluetooth LED. If the unit does not power-up, check polarity.

CONNECTION TO THE INTERNET

The Cerbo GX requires a reliable internet connection to communicate with the Newton Cloud platform. For optimal performance, we recommend the following:

Ethernet connection (preferred method)

- Connect directly to your router or network switch
- Provides the most stable and reliable connection
- Use the supplied RJ45 cable for connection

Wi-Fi connection (alternative option)

- Available when wired connection isn't possible
- Requires adequate signal strength in the installation area
- May be less reliable than a wired connection

PLEASE NOTE: Connection to the Newton Cloud by Wi-Fi is only supported when the Newton Bridge is installed and monitored by a Newton approved partner who has been a) trained in the installation of the device to Wi-Fi and b) who carries the necessary equipment for the connection process which will be carried out during the commissioning process.

Your Newton Bridge is now ready to be commissioned and activated on the Newton Cloud.

MAINTENANCE

The unit does not require specific maintenance. All connections should be checked once a year as part of the pump servicing regime. Avoid moisture, oil/soot/vapours, and keep the device clean.

WARRANTY STATEMENT

The Cerbo GX is covered by a 5 year warranty which commences from date on delivery note or invoice to the customer. Warranty includes next-day on-site replacement (delivery and collection, not decommission and installation) of the Inverter/Charger units by a replacement of the same model.

This limited warranty covers replacement (Newton Waterproofing Systems) only for defects in materials and workmanship.

Further warranty information can be found here

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