

Pulse and Bridge Cloud Units

Cloud-Based Monitoring for New & Existing Basement Pump Systems

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INTRODUCTION

The [Newton Pulse](#) is an advanced cloud telemetry module designed for integration into new pump system installs. It enables remote monitoring of alarm events and pump operation through float switches installed within the sump. The Newton Pulse allows pump systems to be equipped with modern standards of intelligent monitoring and notifications.

The [Newton Bridge](#) is a retrofit cloud telemetry module designed for integration into existing pump systems. It enables remote monitoring of alarm events and pump operation by interfacing with existing panels or alarms. The Newton Bridge allows outdated pump systems to be upgraded to modern standards of intelligent monitoring without physical pump system replacement.

Both systems can also provide monitoring and notifications for your Victron Battery Backup system, where installed.

The Newton Pulse and Newton Bridge units are separate options within the [Newton Cloud ecosystem](#) - a suite of products designed to deliver intelligent, cloud-based monitoring for critical basement waterproofing systems. By connecting to the Newton Cloud platform, both the Newton Pulse and Newton Bridge units enable access to a secure online dashboard where users can view real-time system status, receive alerts, and review historical performance data. Whether monitoring pump activity, high water levels, or battery condition, the Newton Cloud provides clear, actionable insights into your pump system.



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TECHNICAL DATA

Features	Result		Units
	Pulse	Bridge	
Supply Voltage	8 - 70		VDC
Ethernet	10/100 RJ45 socket		
Wi-fi	Built-in		
Relay outputs	2		NO/NDC
Digital inputs	4		
IP rating	IP20		
Height	154		mm
Width	78		mm
Depth	48		mm

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KEY BENEFITS

- Can be retrofitted to any existing pump system (Bridge unit only).
- Constant real-time monitoring of pump system status and battery backup system.
- Push and email notification of alarm events. (iOS and Android compatible)
- Mobile web app for access to your pump system data on the go. (iOS and Android compatible)
- Perimeter drainage channel monitoring where optional CDM BaseDrain Float units are installed.
- Alarm notification of high-water level within sump and drainage channels.
- Monitors the volume of water pumped by system.
- Compatible with both ethernet and Wi-Fi connections. (ethernet connection recommended)
- Persistent log of all notification and alarm events.
- Comprehensive online dashboard featuring built in AI chatbot to aid interrogation of system data.
- Volt free relay outputs for connection to Building Management Systems (BMS).

TYPICAL APPLICATIONS

Newton Pulse - Provides an interface to the Newton Cloud for new pump system installs.

Newton Bridge - Provides an interface between existing pump systems and the Newton Cloud

ASSOCIATED PRODUCTS

- [NP and TAS pumps](#)
- [Titan-Pro Pump System](#)
- [Trojan-Pro Pump System](#)
- [Victron Battery Backup power inverters](#)
- BaseDrain Monitoring Floats

INSTALLATION INSTRUCTIONS

Please refer to the [Installation and Distributor Guides](#).

PACKAGING AND STORAGE

The Newton Pulse and Newton Bridge units are supplied in a reinforced and protective cardboard box. Please handle with care.

Store in dry conditions at temperatures between +5°C and +35°C. Do not expose to freezing conditions. The Newton Pulse and Newton Bridge units, ancillaries and batteries must be installed in a dry internal environment or within specially designed outdoor enclosures.

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CAUTIONS AND LIMITATIONS

Access to Newton Cloud requires an ongoing licence subscription, an initial one-year licence is included with hardware purchase.

An active internet connection is required for transmission of notifications from the system.

PRODUCT WARRANTY

The Victron CERBO GX unit is covered by a 5 year warranty. Warranty includes next-day on-site replacement (delivery and collection, not decommission and installation) of the unit by a replacement of the same model.

TRAINING AND COMPETENCY OF THE USER

The Pulse and Bridge units are not mains powered, they are powered via connection to the backup power system which forms part of the pump system. Where there is no battery system then an appropriately rated DC power supply should be used.

In most cases these Bridge systems will be installed as part of the [Newton CDM System](#) by a Newton Specialist Basement Contractor (NSBC) who are trained and experienced in the installation of all Newton battery backup systems, pumps, pumping systems, panels and telemetry systems.

SPECIFICATION

Newton Waterproofing Systems work in partnership with RIBA NBS who publish our products on [NBS Source](#). The platform integrates seamlessly into project workflows, providing all product data from Newton's NBS BIM Objects, NBS Plus Clauses and RIBA Product Selector into one single source of product information.

HEALTH & SAFETY

Use appropriate PPE for the environment the system is installed within. Use products only as stated within the this Data Sheet and the Installation Guide. Read the Installation Guide before use.

Newton Waterproofing Systems reserve the right to update product literature at any time. Please always refer to our [website](#) for the latest versions.