

Pumps, Pumping Systems and Ancillaries

NEWTON PUMP CONTROLLER

Twin Pump Controller with Alarm

Rev 1.3 - 5 June 2020

PRODUCT CODE - CP9

INTRODUCTION

The Newton Pump Controller is designed to be used with matched pairs of manual versions of [Newton Pumps](#) of 250 watts to 750 watts, and provides a sophisticated yet simple to install, twin-pump control system which offers some of the features of the Newton Control Panel-Pro, but at a lower cost.

The major feature of the control system is the self diagnostic program that operates both pumps on a weekly basis to ensure that they are not stood idle for extended periods in order to prevent seizure and premature pump failure. Each pump will operate for 5 seconds, (one after the other) once per week.

The Newton Pump Controller will operate manual pumps to a maximum power of 750W 230V AC. The panel is supplied with a vertical water level float switch and [High Water Alarm](#) float switch. The panel is designed to be used with an optional [Newton Victron Battery Backup System](#), sized to suit the pumps and installed with sufficient battery power to ensure continued pumping during power outages.

KEY BENEFITS

- Two independent power supply inputs - One for grid mains and the other for either grid mains or a battery-backed power supply via a Newton Victron Battery Backup System
- Automatic pump duty assist
- As well as the panel's audible alarm, an alarm output is sent to trigger the optional [Newton Dialer](#) or home alarm at the time of a pump failure
- Automatic alarm float checking - An alarm checking signal is continually monitored to confirm the alarm float cables have been fitted correctly, not been tampered with or have been disconnected
- Automatic testing of each pump every 7 days
- Test Button - Both pumps can be started from the panel for testing
- Dual power alarm - The alarm is powered under normal circumstances by 230V mains and by internal 9V battery during power outage
- Alarm sounder mute
- Pump operations counter

ASSOCIATED PRODUCTS

- Newton NP, and CP series pumps
- Newton [Titan-Pro](#) and Newton [Trojan](#) packaged pumping systems
- Newton Victron Battery Backup power inverters: Multiplus 12/800/35, MultiPlus 12/1200/50 & MultiPlus 12/3000/120
- Batteries: [NorthStar Batteries](#): NSB 60FT, NSB 100FT and NSB 190FT
- Newton Dialer PA5

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.

NBS Source also hosts a large selection of Newton [case studies](#), as well as product [literature and certifications](#).

A wide range of drawings are available [on our website](#), and a selection are also available via [FastrackCAD](#).

TRAINING AND COMPETENCY OF THE USER

The control panel is designed to control the pumps within Newton System 500, a professional fit waterproofing system. It is installed by contractors trained by Newton Waterproofing in the correct specification and installation of the product, as part of a coordinated approach to the waterproofing of the structure. In many cases, this will require further waterproofing products in order to achieve the required habitable grade as defined by BS 8102:2009.

Electrical installation should only be undertaken by a qualified professional.



NEWTON PUMP CONTROLLER

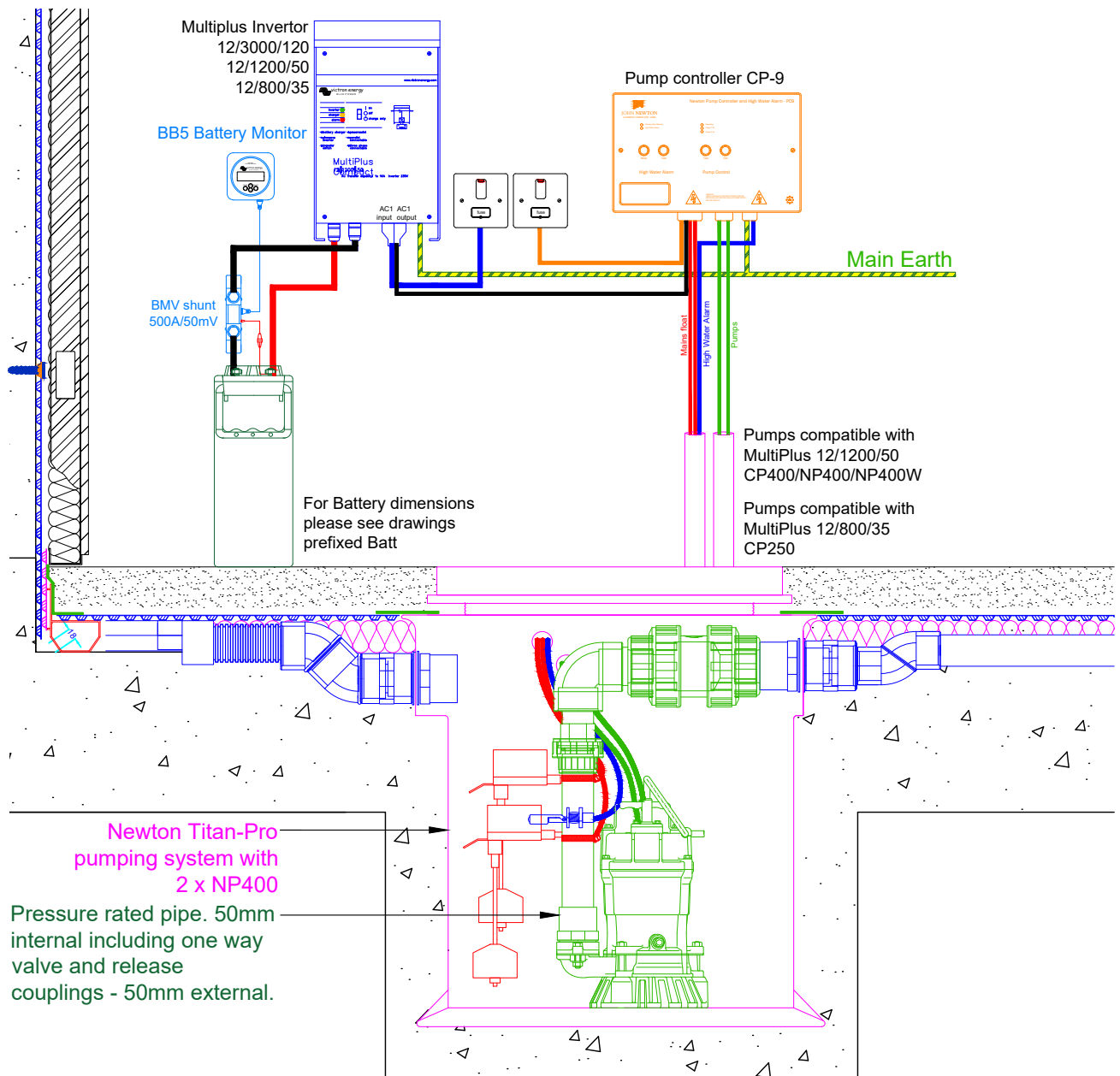
Twin Pump Controller with Alarm

TECHNICAL DATA

Features	Result	Units
Width	300.0	mm
Height	195.0	mm
Depth	78.0	mm
Weight	2.50	kg
Power supply (2 No.)	230	volts
Sounder volume at 1000 mm	90	dB
Switch Type	Vertical (Pumps) & Reed (Alarm)	

TYPICAL DETAIL

Provides full control, monitoring and telemetry capabilities to Newton pumps and Newton pumping systems of up to 750W. The drawing below shows a typical setup where the control panel is connected to two pumps and a Newton Victron Power Inverter for battery backup protection.



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BATTERY BACKUP

The Newton Pump Controller has the ability to receive two totally independent power supplies; one from the mains, and one from a correctly sized Victron Battery Backup System. The Power Inverter should be sized with matched pairs of manual Newton pumps as follows:

MultiPlus 12/800/35 - Newton code BB1

- [Newton CP250](#) pumps

MultiPlus 12/1200/50 - Newton code BB2

- [Newton CP400](#) pumps
- [Newton NP400](#) pumps
- [Newton NP400W](#) pumps

MultiPlus 12/3000/120 - Newton code BB3

- [Newton CP750](#) pumps
- [Newton NP750](#) pumps

WARRANTY

The Newton Pump Controller is supplied with a one-year back to base warranty which is dated from either the date of purchase or a proven date of installation. If the unit develops a fault during the warranty period, Newton Waterproofing Systems Ltd will repair or replace the unit under warranty. Contact the Newton sales office for a returns form which explains the returns procedure. The warranty will be invalidated if the unit is damaged because of improper handling, storage or installation, and in such cases a repair charge may be applicable.

PACKAGING & HANDLING

The Newton Pump Controller is supplied in a reinforced and protective cardboard box. Please handle with care.

OPERATION MANUAL

Please see the [Operational Manual](#) supplied within packaging (also available in downloadable format from our website).

LIMITATIONS

- Not suitable for use with pumps of over 750W
- Must be housed inside a dry environment

STORAGE

Store in dry conditions at temperatures between +5°C and +35°C. Do not expose to freezing conditions.

HEALTH & SAFETY

Use appropriate PPE. Use products only as stated within this Data Sheet and Operational Manual. Only trained and qualified professionals should undertake electrical installations.

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