Level Control Unit

LevelControl Basic 2

Rechargeable Battery Retrofit Kit for BC Type

Supplementary Operating Manual

Legal information/Copyright

Supplementary Operating Manual LevelControl Basic 2

Original operating manual

1 General

This supplementary operating manual accompanies the installation/operating manual. All information contained in the installation/operating manual must be observed.

Table 1: Relevant operating manuals

Type series	Reference number of the installation/operating manual
LevelControl Basic 2	4041.80

1.1 General information/Safety regulations

DANGER

Incorrect installation of the printed circuit board

Danger to life!

- Only fit the printed circuit board when the device is de-energised and the rechargeable battery is not connected.

DANGER

Improper connection of the rechargeable battery

Danger to life!

- Ensure correct polarity when connecting the printed circuit board.
- Ensure correct polarity when connecting the rechargeable battery.
- After installing the rechargeable battery, verify the correct function of the device in mains-independent, i.e. battery, mode.

DANGER

Improper handling of the rechargeable battery

Danger to life!

- Do not expose the rechargeable battery to high temperatures.
- Do not throw the rechargeable battery into a fire. Explosion hazard!
- Do not open and/or technically modify the rechargeable battery.
- Protect the rechargeable battery from moisture.
- Do not use the rechargeable battery if the housing or the contacts have been damaged.
- Observe any safety information printed on the rechargeable battery.

DANGER

Improper installation/replacement of the rechargeable battery

Danger to life!

- Only qualified electrical experts (or persons who have been given proper instruction in accordance with VDE 0100 requirements) may install/replace the rechargeable battery.
- Only install the rechargeable battery when the control unit is de-energised.
- Do not short-circuit the rechargeable battery.

NOTE

The rechargeable batteries must be replaced every five years to ensure that the control unit will operate reliably in battery mode. Use original spare parts only.

Observe the following points when disposing of rechargeable batteries:

- Separate and sort the individual components of the packaging and dispose of them accordingly.
- Observe the generally applicable disposal directives and battery legislation (such as the German Battery Act (BattG), etc.).
- Rechargeable batteries must not be thrown in with the general household waste, but instead in a dedicated collecting bin.

1.2 Preparing the control unit

1. Disconnect the control unit from the power supply.
2. Undo the 6 hexagon socket head cap screws on the surface of the control unit and open the housing.

1.2.1 Mounting the vent

NOTE

Control units manufactured before week six of 2014 ("2014w06") or that have a serial number starting with "S- ..." do not have an integrated ventilation facility. Before the rechargeable battery retrofit kit is fitted, the ventilation facility supplied (cable gland with flexible tube) must be installed.

1. Select a pre-stamped knockout for the M16 cable gland on the rear wall of the housing and break it out using a suitable tool.
2. Screw in the cable gland incl. flexible tube and tighten hand-tight.
3. Loosely twist, or tie the flexible tube according to the figure below.

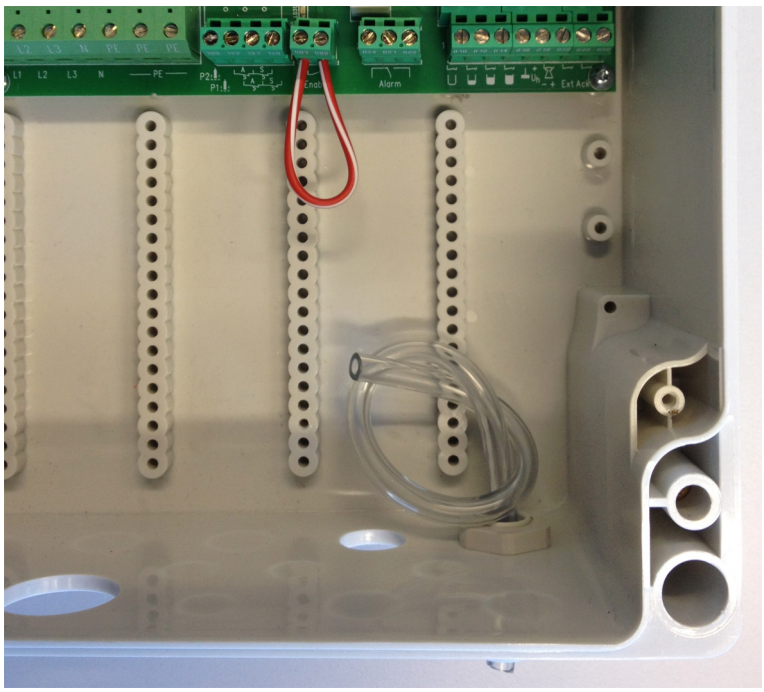

Fig. 1: Mounting the vent

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1.3 Installing the rechargeable battery

NOTE

The rechargeable battery reaches its maximum capacity after approximately 11 hours of continuous charging.

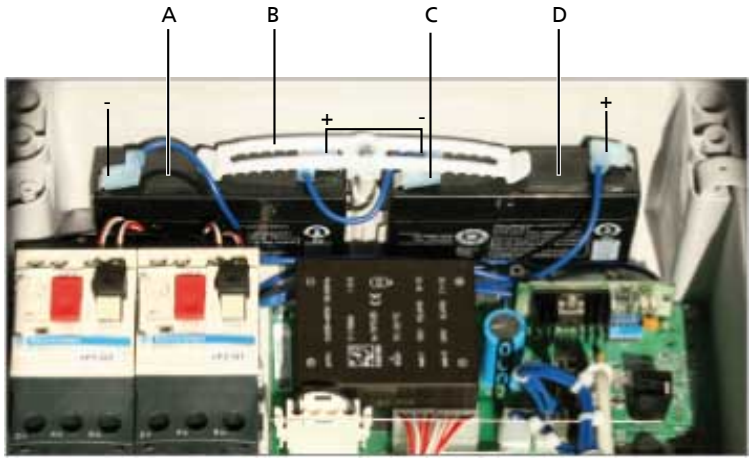

Fig. 2: Installing the rechargeable battery

A	Rechargeable battery	C	Prefabricated connection
B	Clamp	D	Rechargeable battery

1. Insert rechargeable batteries (A, D) in the designated position. Observe the markings at the bottom of the housing (“+” and “-”).
2. Using the prefabricated connection (C), connect the inner poles of the rechargeable batteries in series.
3. Hold the rechargeable batteries in place with the clamp (B) supplied.
4. Place the printed circuit board with the charge controller on the designated slot. See illustration below.

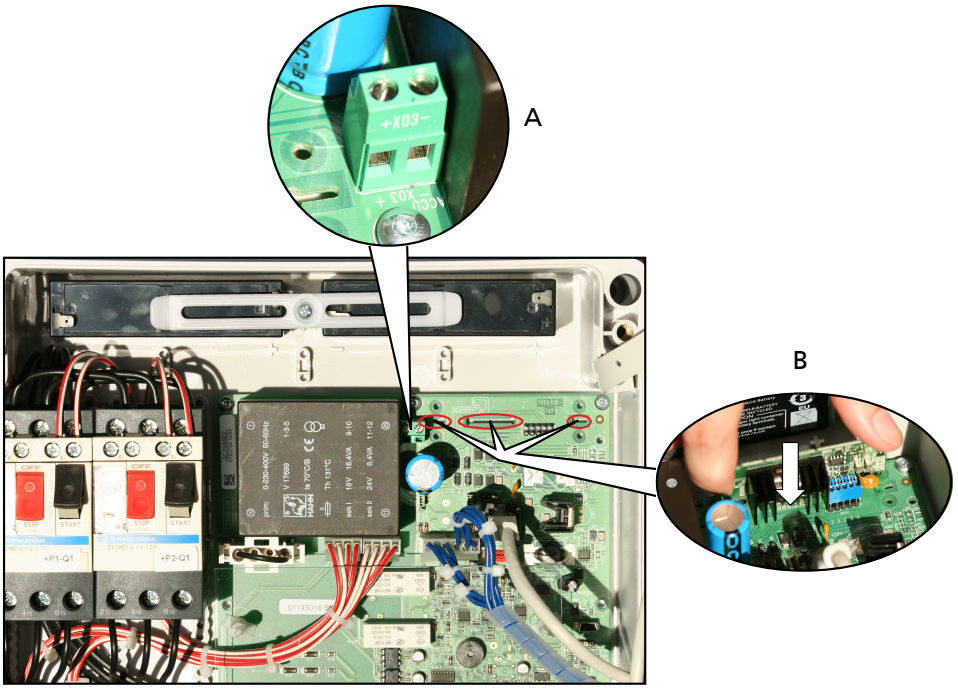

Fig. 3: Fitting the printed circuit board

A	ACCU/+X03- terminal
B	Slot for PCB with charging unit

5. Carefully press on the printed circuit board until the lock engages.
6. Connect the leads to the ACCU/+X03- terminal.
7. Connect the leads to the poles of the rechargeable battery. Ensure correct polarity.

1.4 Making ready for operation

NOTE

Carry out a functional test to verify the integrity of the signalling/message functions during a power failure. The rechargeable batteries are sufficiently pre-charged to function test the control unit.

1. Mount the housing cover and tighten it hand-tight using the 6 hexagon socket head cap screws.
2. Connect the power supply.
3. Disconnect the control unit from the power supply and carry out a function test in battery mode.
   - ⇨ If the display extinguishes, open the control unit and verify the correct position of the charge controller and connections. Correct if necessary. (⇨ Section 1.3, Page 5)
   - ⇨ When the control unit visually and acoustically signals a power failure, the function test is complete.
4. Connect the power supply.

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