

LevelControl Basic 2

Rechargeable-battery Retrofit Kit for
Type BS

Supplement



Legal information/Copyright

Supplement LevelControl Basic 2

Original operating manual

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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

	NOTE
	The rechargeable batteries must be replaced every five years to ensure that the device operates reliably in battery mode. Use original KSB spare parts only.

Electrical safety

	⚠ DANGER
	Precautionary measures for dealing with the rechargeable battery not observed Danger to life! <ul style="list-style-type: none"> ▷ Do not expose the rechargeable battery to high temperatures. ▷ Do not expose the rechargeable battery to open flame (explosion hazard!). ▷ Do not open or modify the rechargeable battery. ▷ Protect the rechargeable battery from moisture and humidity. ▷ 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
	Precautionary measures for installing/replacing the rechargeable battery not observed Danger to life! <ul style="list-style-type: none"> ▷ Only qualified electrical experts (or persons who have been given proper instruction in accordance with VDE 0100 requirements) may retrofit a rechargeable battery. ▷ Prior to installing the rechargeable battery, ensure that the control unit is de-energised. ▷ Do not short-circuit the rechargeable battery. ▷ Only connect the rechargeable battery with the correct polarity.

Disposal Separate and sort the individual components of the packaging and dispose of them accordingly.
Observe all applicable disposal directives such as the German Electrical and Electronic Equipment Act ("ElektroG") and the German Battery Directive ("BattV").
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. Interrupt the power supply to the control unit.
2. Use the accompanying control cabinet key to open the control unit.

1.2.1 Providing for ventilation

LevelControl Basic 2 Type BS... does 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. Insert the M16 cable gland with the tube into an existing knock-out on the underside of the housing. If no more knock-outs are available, drill an additional hole.
2. Twist, or tie, the flexible tube (refer to illustration)

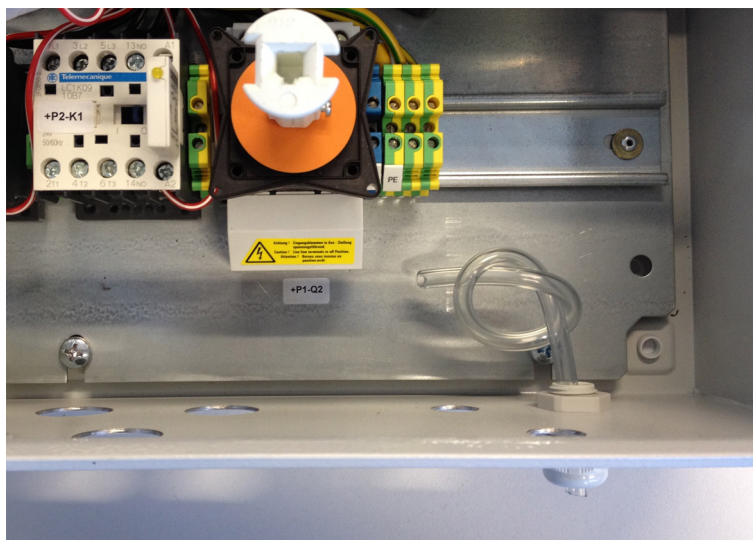


Fig. 1: Installing the ventilation facility

1.3 Inserting the rechargeable battery

1. Undo the screws on the cover and slowly remove the cover from the printed circuit board.
Note that the pressure sensor (if fitted) is also detached from the printed circuit board at this time.

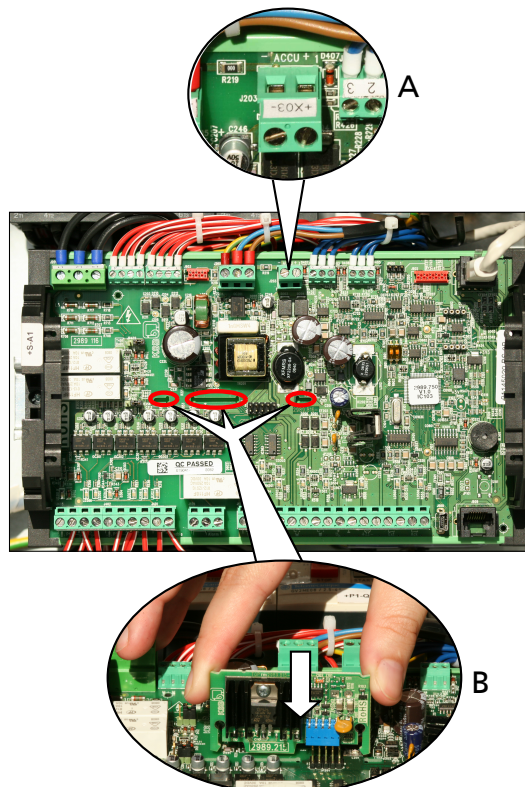


Fig. 2: Engaging the printed circuit board

A	Terminal ACCU or "+X03-"
B	Slot for PCB with charging unit

- Place the printed circuit board with charging unit onto the dedicated slot (see Fig. "Engaging the printed circuit board" - B).
- Carefully push the printed circuit board down until the locking mechanism engages (see Fig. "Engaging the printed circuit board" - B).

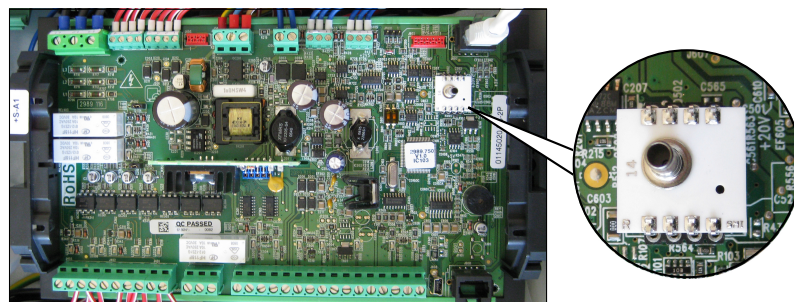


Fig. 3: Correctly fitting the pressure sensor

- Re-position and affix the cover over the printed circuit board. In the process, ensure that the pressure sensor (if applicable) is mounted correctly on the printed circuit board. Insert the sensor as illustrated, noting the position of the small hole (see Fig. "Correctly fitting the pressure sensor").
- Snap the rechargeable battery with its mounting bracket onto an available DIN rail slot.
- Connect the leads to terminal ACCU or "+X03-" (see Fig. "Engaging the printed circuit board" - A).
- Connect the leads with the correct polarity to the poles on the rechargeable battery.





NOTE

The rechargeable battery reaches its maximum capacity after approximately eleven hours of uninterrupted charging.

1.4 Making ready for operation

1. Properly close and lock the control cabinet using the cabinet key provided.
2. Switch the power supply back on.
3. Disconnect the control unit from the power supply again and carry out a test run in battery operation mode. The test is successful if the control unit visually and acoustically signals a power failure. If the display goes completely blank when the power supply is switched off, open the device again, ensure that the charging unit is seated correctly, check and correct the rechargeable battery connections if required and run through steps 1 to 4 a second time.

	<p>NOTE</p> <p>The rechargeable batteries are always pre-charged and, if connected correctly, can be used to carry out a test run of the signalling/message functions of LevelControl Basic 2.</p>
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	<p>NOTE</p> <p>Always carry out a test run to verify the integrity of the signalling/message functions during a power failure.</p>
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4. Switch the power supply back on.



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