Balance tank control device for private and public pools

Installation and instructions for operation

CE

Status: 05/2007

Using the control unit

General

The Meiblue® balance tank control device has been developed especially for overflow tanks for swimming pools with overflow.

Please read the operating instructions before assembly. The manufacturer accepts no liability/guarantee for damage if the unit is not used as intended and if mistakes are made when installing or operating it.

Operation of the balance tank control device

Switch the device on and off using the rotary switch. Important operating conditions are displayed.

• Overflow protection • MAX • MIN • Dry run • Earth	The immersible electrodes installed in the overflow tank are read by the control device. In normal operation, the water level is between the MIN and MAX immersible electrodes. If water is lost eg by evaporation or backwash, the water level falls in the balance tank. The water refill is activated through a magnetic valve below the MIN electrode until the level has reached the MAX electrode. The water refill display lights up and shows the operating status.

Dry run protection: if the level falls below the Dry Run electrode, the filter pump is forced to switch off so that it is not damaged by insufficient water. It remains deactivated until the water level has reached the MIN electrode again.

Overflow/Pump ON: If water displacement in the pool makes the level in the overflow tank rise and it hits the Overflow electrode, the filter pump is forced to switch on. The Overflow/Pump:On display lights up.

Note: In outdoor pools, the level in the overflow tank rises on account of rainwater too and may activate the automatic switching-on of Overflow: Pump ON.
This operating status can be deactivated by disconnecting the relevant electrode.

Installing the balance tank control device

Warning: Use of third-party parts in this device which are not tested and recommended by the manufacturer is impermissible. If you use such parts, they may lead to persons being injured or other damage. In that case, Meiblue® does not accept any liability.
The control device is to be installed in a dry, well-ventilated room under IP 65, near the overflow tank.

The ambient temperature must be min. 5° C / max. 40° C. A drilling template is printed on the reverse of the control device.

Please adhere to national installation regulations in the country where the unit is being installed.

Assembly of immersible electrodes

The immersible electrodes are operated with a harmless low voltage and do not form electrolytes.

The immersible electrodes may be extended to a maximum of 15 metres as required. In such cases, please use a distribution box, to be installed by the customer.

Electrode holders (to order as option) are available for various types of mounting.

- moulded piece with right-angle for wall mounting
- circular piece for normal holder

When connecting the immersible electrodes, please ensure that the sequence is correct.

The manufacturer assumes no liability for malfunction due to faulty installation of the immersible electrodes.

Electrical connection

The installation and assembly of electrical devices must be done only by a skilled electrical worker. (the concept of skilled electrical worker is defined, for instance, in the German Standard VDE 0105).

Caution: If work is done on the unit, the voltage to the lead-in must be switched off.

Power supply only through F1 automatic circuit breaker 0.03A, back-up fuse max. 16A. Please note that the device allows separation from the power supply when the contact opening on each terminal is at least 3 mm. Please adhere to country and local regulations.

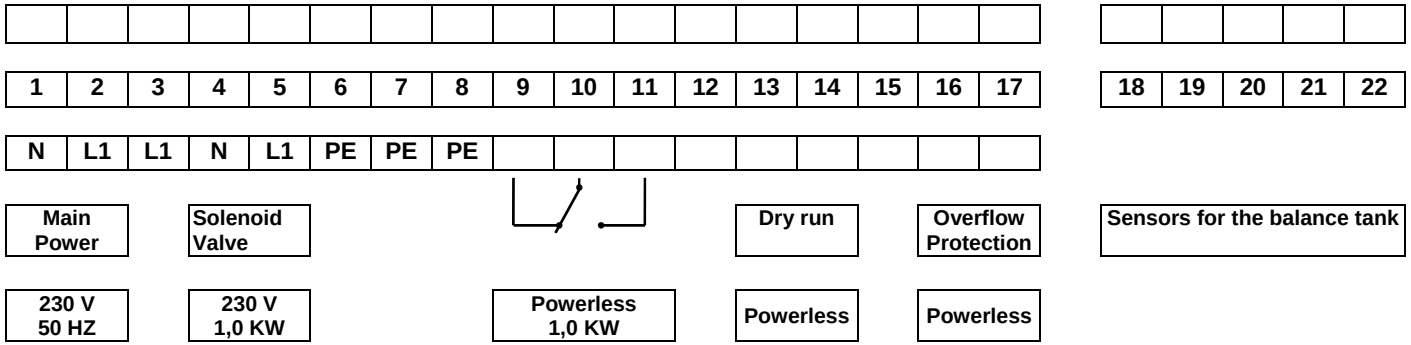
The magnetic valve for water refill is connected to the terminals (4/5).

The dry relay (terminals 9/10/11) connects in parallel to the Dry Run.

The switch contacts for the Dry Run (13/14) and Overflow (16/17) are implemented dry/potential-free and are connected to the filter control.

The power figures given in the terminal allocation plan may not be exceeded.

Meiblue ® Balance Tank Control Device



	Terminal
• Overflow	22
• MAX	21
• MIN	20
• Dry run	19
• Earth	18

The power figures given are not allowed to be exceeded!
Note: The dry relay (terminals 9/10/11) is connected in parallel to the Dry run (terminal 13/14) !