Operating instruction
SOLAR CONTROL SC 02

Fig.: 1

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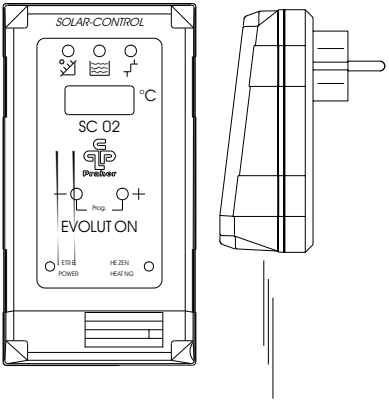

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In case of damages caused by non-observance of Operator's Manual, or damages to the leaded parts, the warranty claim shall elapse. We shall undertake no liability for any resulting damages!
Please make sure to read the operator's Manual carefully before initial operation.

1. Safety precautions:

- This device was built and tested according to the safety precautions for electrical devices. It left the works in perfect condition in terms of technical safety.
- In order to preserve this condition and to ensure safe operation, the operator must observe the safety precautions provided in this Operator's Manual.
- Installation jobs must be performed by an authorised and licensed plumber or electronics company only.
- Carry out all electric installations according to the respective local and regional codes (e.g. ÖVE, VDE standards, ...) and, if necessary, official regulations.
- Regarding the electrical connection there must be an interruption device built into the permanent electrical installation enabling an all-polo separation of the electrical connection from the mains by a contact gap of at least 3mm.
- Make sure the distribution voltage is correctly protected by fuse, and that ≤ 30 mA residual current operated device is installed.
- Use the device in dry rooms only, where there is no combustible gas or vapour.
- Do not put the device into operation immediately after bringing it from a cold room into a warm one. Under certain circumstances any condensation water forming this way may destroy the device.
- If the device shows any *visible damages*, *has ceased to work, or was stored in unfavourable conditions for a longer period*, it can be assumed that a safe operation is no longer possible. In this case the device must be protected against accidental operation, and, if necessary, taken out of service.

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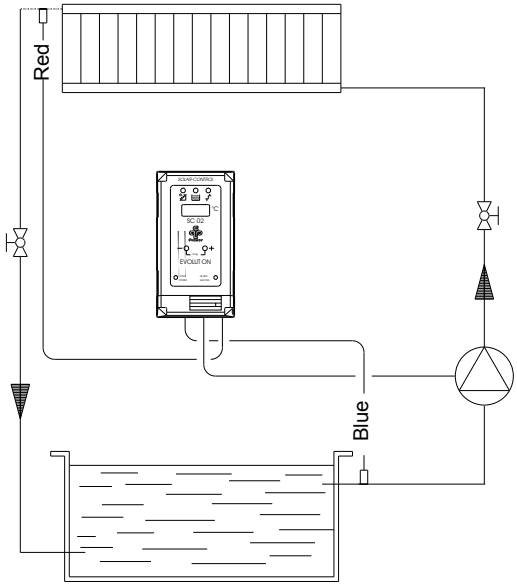
- When opening any covers or removing parts, live parts may be exposed. Before adjustment, maintenance jobs, repairs or exchanging parts or structural components the device must be disconnected from all supply points, if it is necessary to open the device. If it then becomes unavoidable to perform adjustments, service jobs or repairs on the open, current-carrying device, this may only be done by an experienced **expert** who is familiar with relevant regulations and the dangers involved.
- Capacitors inside the device may still be charged, even if the device is separated from all supply points.

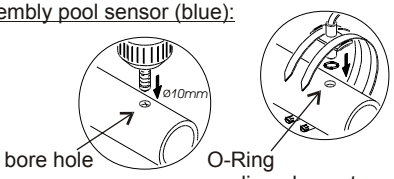
Fig.: 2



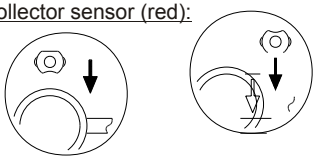
2. Mounting:

To install the wiring we recommend using cable pits. If it becomes necessary.to lengthen cables, unplug the device and separate the cable in a suitable place. lengthen expertly using a terminal box, commercially available for this purpose, up to a maximum of 50m with a 20.5 mm corss section. Depressurise the piping system and empty.

Assembly pool sensor (blue):



Assembly collector sensor (red):



When assembling sonsors, make sure that the respective sonsors are mounted as near to the medium requiring to be measured (e.g. Water) as possible.

Mount the pool sensor (blue) as near to the pool as possible.

Mount the collector sensor (red) as near to the collector outlet's collector tube as possible and makre sure that the collector sensor is exposed to direct insolation, and is not restricted by early shooting (e.g. Trees, buildings,...) In case of non-observance solar energy cannot be optimally utilised.

Take care when doing jobs on roofs. Always pay attention to safety regulations.

Protect yourself from falling.

PLEASE NOTE

Due to the arrangement of the sensors within the system there maybe slight deviations concerning th indicat d t mp ratur s and th pool t mp ratur .

3. Correct use:

This device is a control panel, which, by means of collector and (absorbers), heats up the pool water with a settable temperature difference to a temperature you have chosen by collectors (absorbers) provided there is sufficient insolation. During this process a pump is controlled.

Any use other than the use specified under “Correct use” is not permitted!

4. General information:

PRAHER SOLAR-CONTROL SC 02 is a product of high technical quality, manufactured according to state-of-the-art production methods with the greatest of care.
Should you still have any justified complaints, these will naturally be seen to as soon as possible.

The device is covered by a guarantee in compliance with the applicable EU-law.The factory guarantee period begins with the date of delivery. This date is contained in the serial number on the identivication plate.

5. Initial operation:

After plugging in the control the green LED will light up for POWER (operating) , and the ACTUAL temperature detected by the pool sensor is indicated.

By pressing briefly the[+] button the collector temperature (aborber)  is indicated. By pressing the [+] button once again the DESIRED temperature (pool water ) is indicated. By pressing the [+] button briefly a further time, the hysteresis (ON-OFF control point)  is indicated.

If you wish to change the desired temperature or the hysteresis, obtain the desired position by pressing the [+] button (see LED), and than, by pressing briefly the [+] and [-] button (at the samte time) the LED will start to flash, and the value can be altered by pressing either the + or - button.
The value is automatically seved after about 5 seconds when no change is made. The pre-set data is maintained even after a power failure.

6. Cooling function:

Direct insolation may heat up the pool itself which, under certain circumstances, might lead to poor water quality.

HOW IT WORKS:

The set DESIRED temperature was exceeded by 2°C, and the collector is 2°C lower than the ACTUAL temperature in the pool. In this case the pump is turned on and the red LED for heating starts flashing until the water has cooled down to the DESIRED temperature.

7. Technical specifications:

Voltage: 115 VAC
Permformance: 2 VA

Frequency: 50/60 Hz
System of protection: IP 40

Rupturing capacity
Outlet: I max. 8A/115 VAC
Pool sensor:: 3m, blue
Desired - Temp.: 0 - 60°C / 32 - 140°F
(selectable in 0.1°C steps)

int. Operating voltage: 5 VDC
Collector sensor: 10m, red
Hysteresis: 2° - 10°C / 3 - 18°F
(selectable in 0.1°C steps)

This product is conform with the following EC standards
- Electro-Magnetic Compatibility 89/336/EWG
- Low-Voltage Directive 73/23/EWG

If any defects should occur, please always mention the PRAHER serial numbers of both mounting part and control unit.
We reserve the right to make technical alterations with the object of updating and improving our products without especially letting you know.

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