

Installation and operating instruction Digital-Thermostat

Instrucciones de instalación y funcionamiento Termostato Digital Notice de montage et d'utilisation du Thermostat Digital

THERMO 2





ES

FR



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Read	all	instructions	first	before	installing	the
		2 Digital the			-	



Do not drink any alcohol or take any drugs before or during the installation of the Thermo 2 and follow the safety instructions carefully.



¡Lea todas las instrucciones antes de instalar el termostato Thermo 2 Digital!



No beba alcohol ni consuma drogas antes o durante la instalación del Thermo 2 y siga cuidadosamente las instrucciones de seguridad.



Lisez attentivement toutes les instructions avant de monter le thermostat digital Thermo 2!



Ne buvez pas d'alcool et ne prenez pas de drogue avant ou pendant le montage du Thermo 2 et suivez attentivement les conseils de sécurité.



1. Scope of supply

1 Digital-Thermostat Thermo 2, Incl. suspension device

2. Technical data

Type of unit: Thermo 2

Power supply: 110VAC ±10%, 50/60Hz

Max. breaking capacity: 1500 W
Output capacity: 15A/125VAC

Control range: 0 - 40 °C / ± 0 - 90 °F

Distinction rate: ±1 °C / ±1 °F

Measuring temperature range: -50 to 108 °F

Switching accurage: +1 °C / ± 2 °F

Switching accuracy: $\pm 1 \,^{\circ}\text{C} / \pm 2 \,^{\circ}\text{F}$ Input: < 1,5 W

Protection class:

Sensor length: approx. 40"

Note:

Measuring temperature range: -50 to 108 °F A0--100 °F A01--101°F A02--102°F A03--103°F A04--104°F A05--105°F A06--106°F A07--107°F A08--108°F

IMPORTANT:



Read carefully and follow these instructions as well as the general advice on safety and risks before installation. Keep this leaflet in a safe place for future reference. If you have any doubt about the safety of the unit seek the advice of an expert. If the unit is used in a greenhouse make sure that the electrical connections are carried out by qualified personnel.

3. General

After unpacking and before switching on, make sure that the unit and all its accessories are perfectly in order. If there has been any damage in transit, consult your dealer or the manufacturer immediately. Keep the packaging materials (polythene bag, polys-ty rene, nails etc.) out of reach of children because they represent a potential source of danger. This also applies to small parts supplied, which can be swallowed. This electronic thermostat can be used for a wide variety of temperature control applications, for example for heating and cooling greenhouses and winter gardens, or for monitoring water temperatures in aquariums, the air temperature in terrariums or the soil temperature in seed beds. It is simple to operate and can be connected to any type of heating cable, heating mat or other heating or cooling devices, provided that the maximum heating power of 1500 W is not exceeded. This thermostat is only licensed for connection to 110VAC ±10%, 50/60Hz voltage. The unit must be protected from high degrees of contamination and moisture. If it is used for any application other than that described above it may be damaged and risks such as short-circuiting, fire, electric shock etc. may ensue. The safety and installation in-structions must be strictly adhered to.

4. Advice on safety and risks



hazard.

- Only a 110VAC ± 10%, 50/60Hz mains socket in the public supply network may be used as a power source. Never try to operate the unit at a different voltage.
- Consult an expert if you have any doubts about the operation, safety or connection of the unit.
- · This unit may only be used indoors.
- When opening the cover or removing parts, the unit must be disconnected from the mains supply.
- · Never switch the mains plug on or off with wet hands.
- Never pull on the mains cable itself, always pull the plug out of the socket by the gripping surfaces.
- Do not use the unit in an easily inflammable atmosphere (e.g. in the vicinity of fuel gas or spray bottles). Risk of explosion and fire!
- · Never install the unit close to water cocks, washbasins or other water sources.
- Do not insert any objects in the openings of the unit. Risk of injury, electric shock or damage to the unit!
- When assembling make sure that the connecting cable is not squeezed or damaged by sharp edges. If such damage gives rise to open points on the unit it must under no circumstances be connected to the mains supply. Danger!
- Always pull the plug out of the socket before cleaning the unit. Only clean with a dry cloth.
- · Remove the plug from the socket whenever the unit is switched off.
- If it is to be assumed that harmless operation is no longer possible, the unit
 must be switched off and protected against unintentional operation, which is
 the case when:
 - · the unit or mains cable show visible damage
 - the unit no longer operates
 - · after being stored for a long time under unfavourable conditions
 - · after heavy transport loads
- · Units that operate on mains voltage should not get into the hands of children.
- The unit is not suitable for use in cattle breeding areas.
- These instructions for use form part of the unit and should be kept in a safe place. If the unit is passed on to third parties these instructions for use should also be provided.
- In industrial installations the accident prevention regulations of the Industrial Professional Association for Electrical Installations and Equipment must be complied with.
- Never pour liquids over the unit as this presents the risk of a fire or, fatal electric shock. If this should happen, however, pull the plug out of the socket and consult a specialist.
- If you are uncertain about correct connection, or if you have any questions which are not clarified in the course of the instruction, contact the manufacturer or a specialist.
- This unit is not intended for use by persons (including children) with limited
 physical, sensory or mental capacity. This also applies to persons who do not have
 sufficient experience in or knowledge of handling the product, unless they are
 being supervised or instructed in the use of the unit by a person responsible for
 their safety.

5. Installation

Make sure that the mains voltage corresponds to the voltage indicated in Chapter 2 (technical data). The place of installation must be chosen so that the unit can under no c-ir cumstances get wet (e.g. dripping condensation, open roof hatches, etc.) or fall into water.

The thermostat may be operated in a horizontal or vertical position.

 Connect the heating or cooling unit to the thermostat. To do so, insert the plug of the corresponding heating or cooling unit in the socket on the thermostat.



- cal d.
- Now connect the connecting cable of the thermostat to a 110VAC mains socket.
- Position the end of the sensor cable at the most suitable point for temperature control.

Room temperature control

The sensor should be installed at half room height and should be freely suspended. The room temperature can only be optimally controlled when the sensor is not influenced by draughts, solar radiation or other heat or cold sources.

Cultivation of plants and seeds

Position the sensor in the soil close to the roots. The sensor must be entirely surrounded by soil. In large plant pots the sensor should be located in the middle of the pot.

Water temperature control

For water temperature control (e.g. in an aquarium), the sensor should be positioned in the central layers of water. Here too the sensor must be completely surrounded by water.

6. Operation

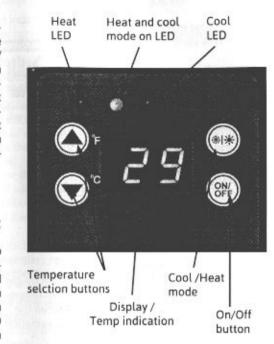
When installing, check that the unit or mains cable is not damaged. Also make sure that the sensor cable has not become sharply kinked as this may impair operation.

Switching on/off

As soon as the unit has been connected to the supply voltage it can be switched on by means of the "ON/OFF" button. To do this the button must be press for 3 seconds. Immediately after switching on the unit determines the ambient temperature of the sensor and indicates it on the display. To switch off, again press the "ON/OFF" button for 3 seconds.

Heat/Cool mode

It is possible to alternate between the heat and cool mode by pressing the 本本 button. Keep the 本本 button pressed for 3 seconds to change mode. On the display "H" appears for 4 seconds for heating and "C" for cooling. At the same time you can detect the mode that has been set by means of the The red LED stands for heating and the green LED for cooling.



Setting the required temperature

Press the ▲ or ▼ button briefly to switch to the setting mode. The already set temperature now flashes in the display. Using the ▲ and ▼ buttons you can change the temperature in 1 °F steps. (Setting range -50 °F to +99 °F). After you have set a new temperature, it is saved automatically and the menu closes after 3 seconds. Now the display again shows the current ambient temperature.

Celsius/Fahrenheit unit selection:

Under normal running status, short press ▼ key or ▲ key and immediately release it, it enters to temperature setting state, and it blinkingly displays the current set temperature. At this time, hold and press C / H key for more than 5 seconds, the system enters Celsius and Fahrenheit setting state, LED blinkingly flashes C and F. Switch between Celsius and Fahrenheit by pressing ▼ key or ▲ key. When finish setting, it will exit in 3s if there is no key operation, and return to the normal running state and save the parameters automatically. If an error occurs during saving parameter, it displays "Er", and 3 seconds later, it returns to normal display state.

Operating modes

It is indicated by the yellow LED whether the heat or cool mode is active.

LED's			0	
red	yellow	green	Operating mode	
on	off	off	"Heat" mode selected / theoretical temperature reached / heat mode off	
on	on	off	"Heat" mode selected / theoretical temperature not reached/ heat mode on	
off	off	on	"Cool" mode selected / theoretical temperature reached / co mode off	
off	on	on	"Cool" mode selected / theoretical temperature not reached / cool mode on	
isplay sho	ows "HH" with:	signal tone	Interrupted working circuit or shortcircuit or temperature above 99°C (or 108 °F)/ heat mode off	



hazard.

A DANGER 7. Cleaning

- · Switch off the thermostat before cleaning and remove the plug.
- · Do not use any grinding, etching or cleaning agents.
- Clean the casing with a damp cloth (not wet), vacuum cleaner or feather duster.
- · Never immerse the unit in water. Danger!
- If the unit is not used for a long time it is necessary to protect it from excessive dust and dirt.

8. Disposal and repair

- Take units to be disposed of to a suitable waste reception depot only.
- Repairs to the unit may only be carried out by authorised specialists.
 Please therefore consult the manufacturer or dealer.
- . N.B. If the unit is not correctly repaired the warranty will not be valid.
- · Incorrectly carried out repairs may represent a danger to the user and other people.

9. MANUFACTURER'S REPESENTATIONS AND WARRANTIES

CTL c/o Bio Green Inc. 2881 Busse Road, Elk Grove Village, IL 60007 United States Email; info@biogreen-products.com

These Representations and Warranties are applicable to all customers (the "Customers" and each, individually, a "Customer") purchasing products (the "Products") manufactured by Bio Green Inc. (the "Company").

1. Warranty and Limitations:

- 1.1. Company warrants solely to the original purchaser of the Products that for the Warranty Period (as defined below), the Products will be free from defects in materials and workmanship under normal use, and will conform to Company's published specifications of the Products. Notwithstanding the foregoing, Company retains its right to deviate from its published specifications due to the latest innovations and improvements in function and design of the Products.
- 1.2. The foregoing warranty is subject to the proper storage, transportation and use of the Products, and does not include defects due to normal wear and tear or deterioration.
- 1.3. Customer shall immediately, but in any event no later than eight (8) days following delivery of the Product, inspect the Products for conformity and visible defects. Customer shall give Company immediate written notice of any non-conformities or visible defects regarding the Products. In the event that Customer fails to provide the Company within eight (8) days following delivery of the Products with notice of any non-conformities or visible defects, any warranty claims in this regard shall be deemed waived.
- 1.4. Customer shall immediately notify Company in writing of any other defects of the Products and return such defective Product. Prior to any shipment of a defective Product, Customer shall contact Company first at the address provided in 1.9. Company's sole obligation under the foregoing warranty is, at Company's option and in its sole discretion, to repair, replace or exchange the defective Product. Any repaired, replaced or exchanged Products shall be subject to this warranty, following their repair, replacement or exchange. If Company has received notification from Customer, and no defects of the Product could be discovered, Customer shall bear the costs that Company incurred as a result of the notice. It shall be in Company's sole discretion to determine if the Product has a defect. In no event shall Company bear the costs of disassembly.
- 1.5. With respect to orders made to custom, any defects of the Products caused by Customer's specifications are excluded from the warranty set forth in 1.1.
- 1.6. Company also makes no warranty that the Products manufactured under an order made to custom do not infringe the intellectual property or other proprietary rights of any third party and Customer is solely responsible for assuring that such Products do not so infringe.

- 1.7. The "Warranty Period" begins on the date of delivery of the Product to Customer, and continues to be in effect for twenty-four (24) months. The "Warranty Period" shall be suspended for the time of repair, replacement or exchange until the repaired, exchanged or replaced product has been returned to Customer.
- 1.8. Company does not authorize any person or party to assume or create for it any other obligation or liability in connection with the Products except as set forth herein.
- 1.9. All requests and notices under this Warranty shall be directed to:

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2881 Busse Road,
Elk Grove Village, IL 60007
United States
Email: info@biogreen-products.com

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