


**Temperature
controller
External
Sensor**



offgridtec Temperature controller External Sensor User Manual

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offgridtec Temperature controller External Sensor



We are delighted that you have decided to purchase an temperature controller from us. These instructions will help you to install the temperature controller safely and efficiently.

Safety Instructions

- **ATTENTION**

Please observe all safety precautions in this guide and the local regulations

- **Risk of electric shock**

Never work on a connected temperature controller.

- **Fire protection**

Ensure that no flammable materials are stored near the temperature controller.

- **Physical safety**

Wear suitable protective equipment (helmet, gloves, safety goggles) during installation.

- Please read this manual carefully before installing and using the temperature controller.
- Keep this manual with you as a reference for future service or maintenance or for the sale.
- If you have any other questions, please contact Offgridtec customer service. We will help you.

Technical Specifications

Description	
Max. current	16 Amps
Voltage	230 VAC
Local power consumption	< 0.8W
Weight	126 g
Temperature display range	-40°C to 120°C
Accuracy	+/- 1%
Time accuracy	max. 1 minute

Installation

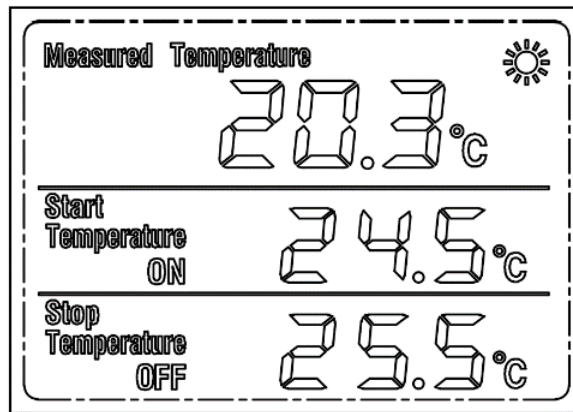
Choice of Location

- Select a location with a suitable range to the electrical devices that are to be connected.
- Ensure a solid contact for a proper power supply.

Push button definition

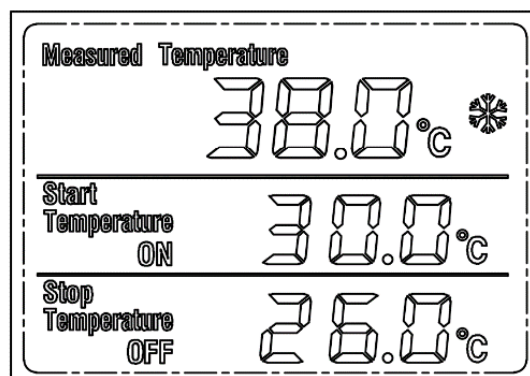
1. FUN: Press the FUN key to display in sequence of temperature control → F01→F02→F03→F04 modes. And also to confirm the setting and exit the setting.
2. SET: Press the SET key to set the data under current display mode, when data blinking, ready for setting
3. UP means + for setting the data
4. DOWN means – for setting the data

Thermostat-controlled (Heating mode): ☀ is blinking



- When Start temperature lower than Stop temperature means the controller is heating.
- When live measured temperature is lower than Start temperature the outlet is power ON, the indicator LED is blue on.
- When live measured temperature is higher than Stop temperature the outlet is power OFF, the indicator LED is off.
- Temperature setting range: -40°C bis 120°C.

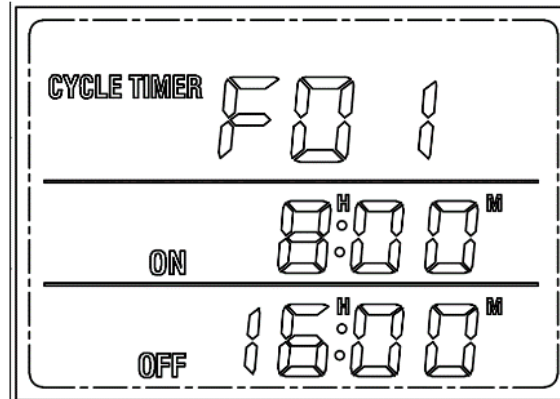
Thermostat-controlled (Cooling mode): ❄ is blinking



- When Start temperature higher than Stop temperature means the controller is cooling.

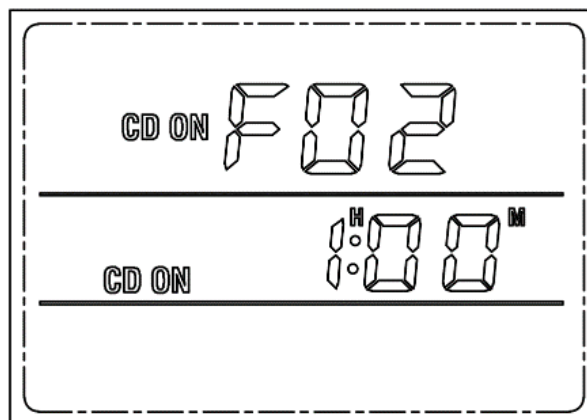
- When live measured temperature is higher than Start temperature the outlet is power ON, the indicator LED is blue on.
- When live measured temperature is lower than Stop temperature the outlet is power OFF, the indicator LED is off.
- Temperature setting range: -40°C bis 120°C.

F01 Cycle timer mode



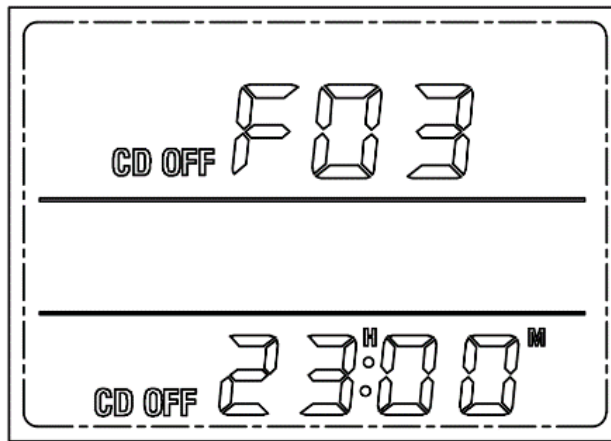
- ON time means after this hour and minute the outlet is power ON, the indicator LED is blue on.
- OFF time means after this hour and minute the outlet is power OFF, the indicator LED is off
- It will keep working in cycles
- For example ON is 0.08 and OFF is 0.02, the power be ON after 8 minutes and work then for 2 minutes..
- Press the FUN button to choose this display. Press and hold FUN for 3 seconds to activate this mode. The indicator LED is blue on.
- Press FUN for 3 seconds long to exit this mode. The indicator LED is off.

F02: countdown ON mode



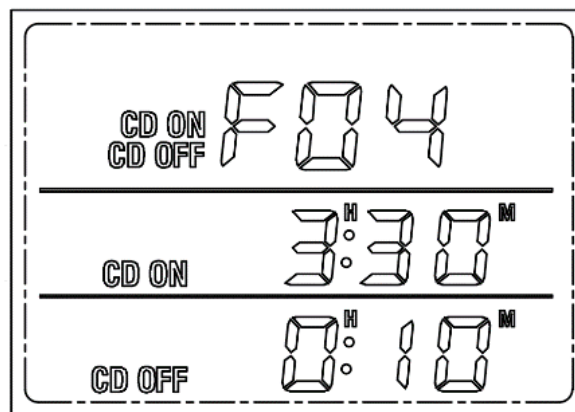
- CD ON means after this hour and minute counting down.
- The device starts to work after CD ON time ends. For example, set CD ON 0.05, the device starts to work after 5 minutes
- Press the FUN button, to choose this display. Press and hold FUN for 3 seconds to activate this mode. The CD ON is blinking.
- Press FUN for 3 seconds long to exit this mode.

F03: countdown OFF mode



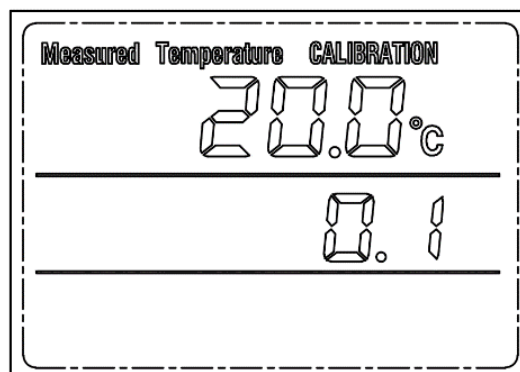
- The device starts to work after CD OFF time ends. For example, set CD ON 0.05, the device starts to work immediately and shut off after 5 minutes
- Press the FUN button, to choose this display. Press and hold FUN for 3 seconds to activate this mode. The CD OFF is blinking.
- Press FUN for 3 seconds long to exit this mode.

F04: countdown ON/OFF mode



- After CD ON time ends and stop working after CD OFF time ends. For example, set CD ON 0.02 and CD OFF 0.05 the device will start to work after 2 minutes, then work for 5 minutes and stop working.
- Press the FUN button, to choose this display. Press and hold FUN for 3 seconds to activate this mode. The CD OFF is blinking.
- Press FUN for 3 seconds long to exit this mode.

Temperature calibration



- Unplug the Temperature controller from the outlet and plug in again, before the initial screen off, press and hold FUN for 2 seconds
- Use + and – to adjust the displayed temperature to be correct (you may need to have other calibrated temperature measure device to have the correct temperature information. Press SET to confirm the setting
- The calibration range is – 9.9 °C~9.9 °C.

Memory function

All the settings will be saved even when power is off.

Factory setting

By holding and press the + and – button together for 3 seconds, the screen will turn to initial display and restore to the factory settings.

Getting Started

1. Check all connections and fastenings.
2. Switch on the temperature controller.
3. Ensure that the temperature controller delivers the expected output.

Maintenance & Care

1. Regular inspection: Check the temperature controller regularly for damage and dirt.
2. Checking the cabling: Regularly check the cable connections and plug connectors for corrosion and tightness.

Troubleshooting

Error	Troubleshooting
Temperature controller does not supply any energy	Check the cable connections of the Temperature controller.
Low power	Clean the Temperature controller and check for damage.
Temperature controller displays error	Consult the Temperature controller operating instructions.

Disposal

Dispose of the Temperature controller in accordance with the local regulations for electronic waste.

Disclaimer

Improper execution of the installation/configuration can lead to property damage and thus endanger persons. The manufacturer can neither monitor the fulfillment of the conditions nor the methods during installation, operation, use and maintenance of the system. Offgridtec therefore accepts no responsibility or liability for any loss, damage or expense arising from or in any way connected with improper installation/configuration, operation and use and maintenance. Similarly, we accept no responsibility for patent infringement or infringement of any other third-party rights arising from the use of this manual.

This marking indicates that this product should not be disposed of with other household waste within the EU. Recycle this product properly to prevent possible environmental damage or health risks from uncontrolled waste disposal, while promoting the environmentally sound reuse of material resources. Please take your used product to an appropriate collection point or contact the dealer where you purchased the product. Your dealer will accept the used product and forward it to an environmentally sound recycling facility.

Imprint

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Documents / Resources

	<p>offgridtec Temperature controller External Sensor [pdf] User Manual</p> <p>Temperature controller External Sensor, Temperature, controller External Sensor, External Sensor, Sensor</p>
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References

- [Solaranlage: Photovoltaik kaufen, Solar Panel von OFFGRIDTEC](#)
- [User Manual](#)

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