sygonix 1761770 Temperature Controller Instruction Manual

Operating Instructions
Temperature Controller
Item No. 1761770

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Intended Use

CE

Delivery Content

- Temperature controller
- Operating instructions

Up-to-date Operating Instructions

Download the latest operating instructions at www.conrad.com/downloads or scan the QR code shown. Follow the instructions on the website.

www.conrad.com/downloads

Explanation of Symbols

The symbol with the lightning in the triangle is used if there is a risk to your health, e.g. due to an electric shock.

The symbol with the exclamation mark in the triangle is used to indicate important information in these operating instructions. Always read this information carefully.

The arrow symbol indicates special information and advice on operation.

Safety Instructions

Read the operating instructions carefully and especially observe the safety information. If you do not follow the safety instructions and information on proper handling in this manual, we assume no liability for any resulting personal injury or damage to property. Such cases will invalidate the warranty/ guarantee.

a) General Information

- The device is not a toy. Keep it out of the reach of children and pets
- Do not leave packaging material lying around carelessly. This may become dangerous playing material for children
- Do not place the product under any mechanical stress
- If it is no longer possible to operate the product safely, take it out of operation and protect it from any accidental use. The safe operation can no longer be guaranteed if the product:
  – is visibly damaged,
  – is no longer working properly,
  – has been stored for extended periods in poor ambient conditions, or
  – has been subjected to any serious transport-related stresses.
- Please handle the product carefully. Jolts, impacts, or a fall even from a low height can damage the product.
- The product must not be exposed to extreme temperatures, direct sunlight, or strong vibrations. Keep the product away from strong magnetic fields generated by machines, electric motors, or loudspeakers.
- Do not operate the product in environments where there are high levels of dust, flammable gases, vapors, or

solvents. There is a danger of fire and explosion!

- Do not use this product in hospitals or medical institutions. Although the sensor emits only relatively weak radio signals, these may lead to the malfunction of life-supporting systems. The same may also apply to other areas.
- Consult an expert when in doubt about the operation, safety, or connection of the appliance.
- Maintenance, modifications, and repairs must only be completed by a technician or an authorized repair center.
- If you have questions that remain unanswered by these operating instructions, contact our technical support service or other technical personnel.

b) Connected Devices

- Also, observe the safety and operating instructions of any other devices which are connected to the product.

c) (Rechargeable) Batteries

- Correct polarity must be observed while inserting the (rechargeable) battery.
- The (rechargeable) batteries should be removed from the device if it is not used for a long period of time to avoid damage through leaking. Leaking or damaged (rechargeable) batteries might cause acid burns when in contact with skin, therefore use suitable protective gloves to handle corrupted (rechargeable) batteries.
- (Rechargeable) batteries must be kept out of reach of children. Do not leave (rechargeable) batteries lying around, as there is a risk, that children or pets swallow them.
- All (rechargeable) batteries should be replaced at the same time. Mixing old and new (rechargeable) batteries in the device can lead to (rechargeable) battery leakage and device damage.
- Rechargeable batteries must not be dismantled, short-circuited, or thrown into the fire. Never recharge non-rechargeable batteries. There is a risk of explosion!

Features and Functions

→ Also, consider the chapter “Technical data” at the end of these operating instructions.

- Operation via two batteries/rechargeable batteries of type AAA/Micro
- Measures and displays temperature and humidity at its location
- Cooling or heating mode can be toggled · One receiver can be connected
- 8 switching programs (each can be allocated one individual weekday, the period “Mon- day – Friday” or the period “Monday – Sunday”)
- Manual operation of the receiver possible
- The receiver is controlled wirelessly (868 MHz technology)
- Positioning on a table or mounting on a wall

Getting Started

a) Inserting/Replacing Batteries

- · Open the battery compartment on the back of the temperature controller and insert two bat- teries of type AAA/micro observing the correct polarity (pay attention to plus/+ and minus/-).

- All display segments appear briefly, then the digital clock starts, and the first measurement value for temperature and humidity is shown on the right in the display.
- Close the battery compartment again.

  → The battery needs to be replaced when the display contrast is reduced considerably. The programmed data is preserved when the battery is replaced; you only need to set the time again.

  It is possible to operate the temperature controller with rechargeable batteries. However, the operating time and the display contrast, are greatly reduced due to the lower voltage (battery = 1.5 V, rechargeable battery = 1.2 V). We, therefore, recommend using only high-quality alkaline batteries instead of rechargeable batteries.

b) Setting the Time

- Repeatedly press the “FUNC” button briefly until “CANCEL” appears in the display.
- Hold the “FUNC” button pressed (approx. 3 seconds) until the weekday flashes on the top in the display (above the displayed time).
- Set the weekday or the period using the “+/ON” or “-/OFF” buttons.

  “MO” = Monday

  “TU” = Tuesday

  “WE” = Wednesday

  “TH” = Thursday

  “FR” = Friday

  “SA” = Saturday

  “SU” = Sunday
- Briefly press the “FUNC” button to confirm and the hours will flash.
- Set the hours with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for longer. · Briefly press the “FUNC” button to confirm and the minutes will flash.
- Set the hours minutes with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for a longer
- Briefly press the “FUNC” button to confirm and to exit the setting mode.

→ **c) Registering a Receiver for the Temperature Controller**

The temperature controller can control a receiver of the RS2W radio switch system (e.g. a radio switch socket that is part of the system). Other receivers cannot be used.
Follow the operating instructions of the receiver of the RS2W radio switch system that will be used prior to the registration procedure.
A dimmer of the RS2W radio switch system cannot be used.
During the registration process, maintain a 20 – 30 cm minimum distance between the temperature controller and the receiver. Failing to do this may result in a registration failure.

- If the receiver is switched on, switch it off for the moment.

  →The receiver (e.g. a radio switch socket) must be switched off (LED in the button is off); otherwise, registration cannot be done.

  Start the registration procedure at the temperature controller.

- · Repeatedly press the “FUNC” button briefly until “CANCEL” appears on the left in the display.
- Hold the “+/ON” button pressed for 2 seconds until the two arrows in the ” flash alternately. Then release the button . “symbol
- The temperature controller is now ready to register the receiver.
- · Hold the button on the receiver pressed (approx. 3 seconds) until the two arrows in the ” ” symbol on the temperature controller stop flashing.
- · The receiver switches on to indicate the end of the registration process.

→ Only one receiver can be registered at the temperature controller (a receiver of the RS2W radio switch system, but not a dimmer).
If you start a new registration procedure and register another receiver of the RS2W radio switch system, the receiver registered previously will be deleted/overwritten.

d) Deleting a Registered Receiver

If the receiver is registered at the temperature controller, proceed as follows:

- Start the registration procedure at the temperature controller.
  Repeatedly press the “FUNC” button briefly until “CANCEL” appears on the left in the display.
  Hold the “+/ON” button pressed for 2 seconds until the two arrows in the symbol flash alternately. Then release the button.
- Hold the “+/ON” button pressed again for 2 seconds and the registered receiver will be deleted; the right part of the ” symbol and the two arrows disappear.

Operation

a) Selecting Heating or Cooling Mode

→ In heating mode, the receiver is activated when the measured temperature is below the set target temperature. This operating mode can be used in conjunction with a heater. In cooling mode, the receiver is activated when the measured temperature is above the set target temperature. This operating mode can be used in conjunction with a cooling unit or fan.

- Repeatedly press the “FUNC” button briefly until “CANCEL” appears in the display.
- Hold the “+/ON” and “-/OFF” buttons pressed at the same time to toggle between the heating and cooling mode.
  Depending on the mode selected, a corresponding symbol appears in the top left of the display:
  “ ☀ ” Heating mode
  “ ❄ ” Cooling mode

b) Switching the Consumer On/Off Manually

At the receiver

Follow the operating instructions of the receiver of the RS2W radio switch system.

At the button on the temperature controller

- Repeatedly press the “FUNC” button briefly until “CANCEL” appears in the display.
- The registered receiver can be switched on with the “+/ON” button and switched off with the “-/OFF” button.

c) Selecting and Setting the Programme

- Repeatedly press the “FUNC” button briefly until “AUTO” appears in the display.
- Select one of the 8 programs “PROG1” to “PROG8” with the “+/ON” or “-/OFF” button.
- Hold the “FUNC” button pressed (approx. 3 seconds) until the temperature flashes at the left in the display.
- Set the temperature with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for longer.
- Briefly press the “FUNC” button to confirm and the weekdays will flash.
- Set the weekday or the period using the “+/ON” or “-/OFF” buttons.
  You can set:
  “MO” = Monday
  “TU” = Tuesday
  “WE” = Wednesday
  “TH” = Thursday
  “FR” = Friday
  “SA” = Saturday
  “SU” = Sunday
  “MO TU WE TH FR” = Monday to Friday
  “MO TU WE TH FR SA SU” = Monday to Sunday
- Briefly press the “FUNC” button and the hours of the starting time will flash. You can now enter a time period during which the set temperature should be maintained (e.g. from 8 am to 5 pm).
  → Keep in mind that the set time periods must not overlap (e.g. if you would set program 1 from 8 am to 5 pm and program 2 from 9 am to 3 pm). Otherwise, some switching times or temperatures may not be activated as a result. If a temperature is to be maintained for the entire day, set the same time for starting and ending time.
- Set the hours of the starting time with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for longer.
- Briefly press the “FUNC” button to confirm and the minutes of the starting time will flash.
- Set the minutes of the starting time with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for longer.
- Briefly press the “FUNC” button to confirm and the hours of the ending time will flash.
- Set the hours of the ending time with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for longer.
- Briefly press the “FUNC” button to confirm and the minutes of the ending time will flash.
- Set the minutes of the ending time with the “+/ON” or “-/OFF” buttons. For quick adjustment, press and hold down the corresponding button for longer.

- Briefly press the “FUNC” button to confirm and to exit the setting mode.

d) Manual Temperature Pre-selection

- Repeatedly press the “FUNC” button briefly until “MANU” appears in the display.
- Hold the “FUNC” button pressed (approx. 3 seconds) until the temperature flashes on the left in the display.
- Select the desired temperature with the “+/ON” or “-/OFF” button. For quick adjustment, press and hold down the corresponding button for longer.
- Press the “FUNC” button briefly to confirm.

→ Manual temperature pre-selection remains activated for the following 24 hours and then changes back to automatic operation.

e) Selecting the Operating Mode (“AUTO”, “MANU”, “CANCEL”)

If the temperature controller is not in a setting mode, you can select the operating mode by briefly pressing the “FUNC” button. **Operating mode “AUTO”**
The temperature controller maintains the temperature automatically according to the settings made for times/weekdays in the 8 programs “PROG1” to “PROG8”.

Operating mode “MANU”
The temperature controller maintains the temperature after activation of this operating mode for a duration of 24 hours and then changes back to automatic operation.
Operating mode “CANCEL”
The temperature controller is deactivated; a switching process is not executed.

f) Feedback On the Switching Process

A special feature of the RS2W radio switch system, to which the temperature controller belongs, is that it provides feedback on the successful (or unsuccessful) switching process.
The receiver sends information about the reception and execution of the switching process back to the sender. In this way, you can always see if the radio receiver (e.g. a radio switch socket) has executed the switching command or not.
The temperature controller indicates this with double arrows:

Switching process successful, feedback received

No feedback received from the receiver

→ A reason for missing feedback could be interferences at the same frequency, unfavorable reception conditions or similar (see next chapter “Range”) or the receiver is not connected to the mains.

g) Installation/Positioning Of the Temperature Controller
The temperature controller can be hung from a nail, hook or screw in a wall, using an opening on the back. Alternatively, unfold the mounting foot at the back and position the temperature controller on a level, stable surface. Protect valuable furniture surfaces by using a suitable mat to prevent scratch marks.
→ For operation, choose a place that is not directly exposed to the sun and not located close to a radiator. This will result in an erroneous temperature or humidity display as well as to an erroneous control of the heating or cooling device connected to the receiver.

h) Range

The transmission range of the radio signals between the temperature controller and the receiver is up to 150 m under optimum conditions.
This value, however, is the so-called “open space range” (the range when transmitter and receiver are in line of sight, without any interference).
In practice, however, there may be walls, room ceilings, etc. between the transmitter and the receiver, which will reduce the range accordingly.
Due to the different influences on radio transmission, no specific range can be guaranteed. However, trouble-free operation is usually possible in a single-family house.
Sometimes the range can be considerably reduced due to:

- Walls, reinforced concrete floors, drywall walls with metal frame construction
- Coated/metallized insulated glass
- Proximity to metallic & conductive objects (e.g., heating elements)
- Proximity to human bodies
- Other devices on the same frequency (e.g. wireless headphones, wireless speakers)
- Proximity to electric motors/appliances, transformers, power supplies, computers

Care and Cleaning

- The product does not require any maintenance by the user; do not open/disassemble it (except for replacing the batteries). Repair or maintenance work must be carried out by a specialist.
- Do not use any aggressive cleaning agents, rubbing alcohol, or other chemical solutions as they can cause damage to the housing and malfunctioning.
- You can use a clean, dry, soft cloth for cleaning. Dust can be very easily removed with a soft, clean brush and a vacuum cleaner.
- Do not press on the display, it could be damaged.

Declaration of Conformity (DOC)

Conrad Electronic SE, Klaus-Conrad-Straße 1, D-92240 Hirschau hereby declares that this product conforms to the 2014/53/EU directive.
Click on the following link to read the full text of the EU declaration of conformity: **www.conrad.com/downloads**
Enter the product item number in the search box. You can then download the EU declaration of conformity in the available languages.

Disposal

a) Product

Electronic devices are recyclable waste and must not be disposed of in the household waste. At the end of its service life, dispose of the product in accordance with applicable regulatory guidelines. Remove any inserted (rechargeable) batteries and dispose of them separately from the product.

b) (Rechargeable) Batteries

You as the end-user are required by law (Battery Ordinance) to return all used (rechargeable) batteries. Disposing of them in household waste is prohibited.

Contaminated (rechargeable) batteries are labeled with this symbol to indicate that disposal of domestic waste is forbidden. The designations for the heavy metals involved are Cd = Cadmium, Hg = Mercury, Pb = Lead (name on (rechargeable) batteries, e.g. below the trash icon on the left).
Used (rechargeable) batteries can be returned to collection points in your municipality, our stores, or wherever (rechargeable) batteries are sold.
You thus fulfill your statutory obligations and contribute to the protection of the environment.

Technical Data

Input voltage…… 2x type AAA/Micro batteries
Temperature control range …….. 0 °C to +50 °C
Switching programs…….. 8 (daily, weekdays or entire week can be selected)
Range……. up to 150 m (see chapter “Range”)
Suitable receivers ……. Radio switches of the RS2W radio switch system (a dimmer cannot be used!)
A number of receivers …… 1
Transmission/receiving frequency… 868.000 868.600 MHz
Transmission/receiving range……. max. 150 m (in open area)
Transmission power…… <14 dBm
Operating/Storage conditions ……. -9 °C to +55 °C, 20 95 % RH (non-condensing)
Dimensions (H x W x D) …… 102 x 63 x 18 mm
Weight …… approx. 73 g (without batteries)

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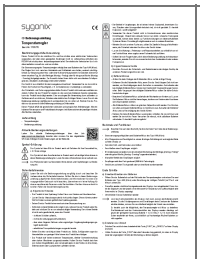
Documents / Resources

	sygonix 1761770 Temperature Controller [pdf] Instruction Manual 1761770, Temperature Controller

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