

NOVOS 3 Timer

Room operating unit timer

thermokon[®]
HOME OF SENSOR TECHNOLOGY

Datasheet

Subject to technical alteration
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novos



» APPLICATION

Electrical Timer for energy-saving and boost functions in indoor ventilation, heating and lighting applications. The user selects and starts a time interval using a pushbutton on the device. A time interval ends automatically after the set time has elapsed or can be ended manually before it has elapsed. The integrated display shows the available time intervals as well as the remaining running time of a timer. In addition, the setting options on the circuit board offer the possibility of configuring different groups of time intervals and display settings according to individual requirements.

While the timer is activated, the relay remains active, enabling reliable control of the devices. Once the set time has elapsed, the relay drops out automatically, deactivating the connected components. The timer functions can be used in office applications, for example, when increased ventilation is required outside normal working hours. The timer can also be used, for example, to limit the running time of a supply voltage for certain electronic devices.

» SECURITY ADVICE – CAUTION



The installation and assembly of electrical equipment should only be performed by authorized personnel. The product should only be used for the intended application. Unauthorized modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installation. Do not connect to live/operating equipment.



CAUTION! Risk of electric shock! There may be live parts inside the housing. Touching live parts can result in personal injury, particularly with appliances in mains voltage mode (normally between 90 and 265 V).

Please comply with:

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

» PRODUCT TESTING AND CERTIFICATION



Declaration of conformity

The declaration of conformity of this product is available on our website
<https://www.thermokon.de/en-gb/>

» NOTES ON DISPOSAL

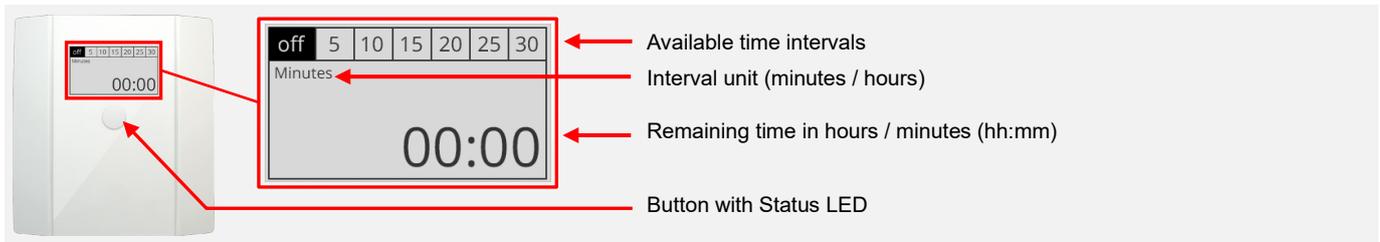


The crossed-out wheeled bin symbol indicates that the product or removable batteries must not be disposed of with household or commercial waste. Within the EU, you are legally obliged to dispose of the product separately and appropriately in accordance with the national laws of your country. Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH. Further information can be found at: www.thermokon.com

» TECHNICAL DATA

Function	Timer	
Power supply	24 V AC/DC ($\pm 10\%$)	230 V AC
Power consumption	< 1,2 VA	
Display	ePaper display, status LED	
Output	changeover contact, 250 V AC, switching capacity (max. 6A)	
Button	for controlling the timer function	
LED	for status feedback, color: green, integrated in button	
Enclosure	PC V0, pure white or black	
Protection	IP20 according to DIN EN 60529	
Cable entry	back side, predetermined breaking points on bottom, drilling marks on top	
Connection electrical	tool-free mountable spring terminal, max. 1,5 mm ²	
Ambient condition	-20..+70 °C, max. 85% non-condensing	
Mounting	Surface-mounted on EU flush-mounting box ($\varnothing=60$ mm), alternatively mounted flat onto a wall using screws, base part can be pre-mounted and wired separately	

» DEVICE DESCRIPTION / DISPLAY



» OPERATION

1. Press the button to select a time interval (toggle). Alternatively, select „off“ to cancel the timer function.
2. After 3 seconds of inactivity, a timer starts with the selected time interval and the relay is energized (LED lights up continuously)
3. Remaining time is shown on the display in hours and minutes (hh:mm).
4. When the timer expires, the display changes to „off“ and the relay switches to off (LED switched off).
5. A new timer can be started.



An activated timer can only be stopped manually by pressing and holding the button for >3sec.

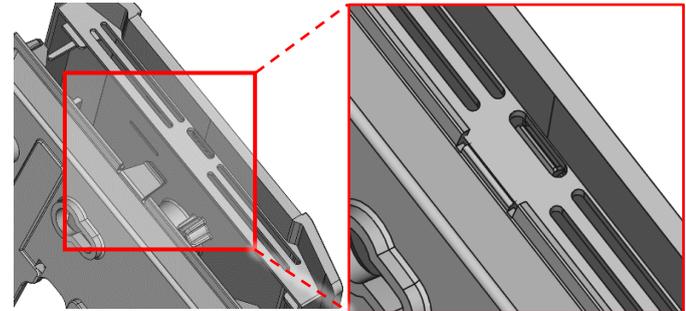
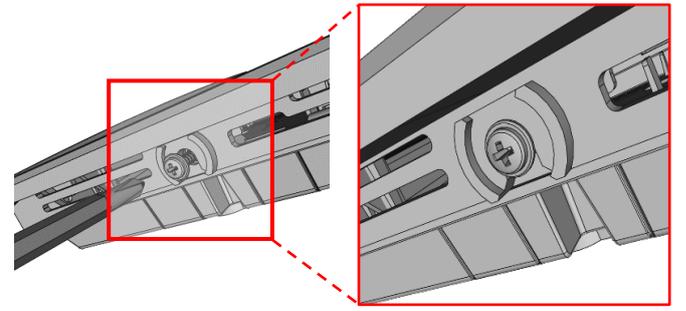
» MOUNTING ADVICES

Please make sure that the device is de-energized if you want to install it!

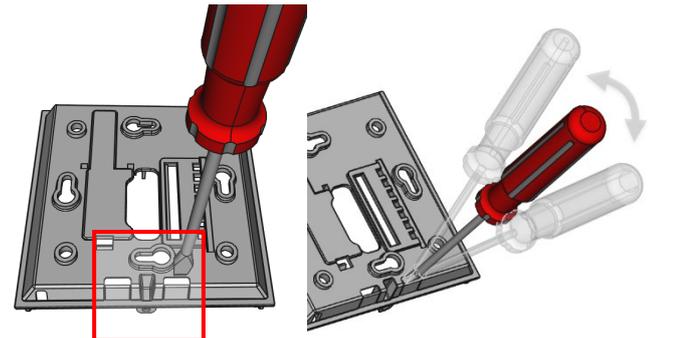
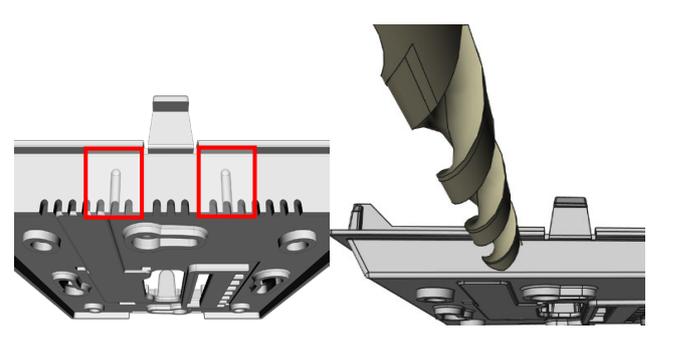
The installation can be performed on the flat wall surface or on a flush-mounted box. A representative place should be selected. Sunshine and draft, e.g. in the installation tube should be avoided, so that the measurement result is not falsified. Seal the end of the installation tube.

- For wiring, the upper part of the device must be removed from the base plate. Base plate and upper part are detachably connected to each other by means of locking lugs.
- The mounting of the base plate on the flat wall surface is done with plugs and screws.
- Finally, the device is attached to the base plate and fixed with the screw.

Housing open / close

<p>Snap the upper part of the housing into the locking lug on the upper side</p>	<p>Fix the upper part of the housing on the underside with the screw included in the delivery.</p>
	

Cable entry

<p>There are predetermined breaking points for 2 optional cable entries on the underside of the base plate</p>	<p>On the upper side of the base plate there are 2 grits as position for a drill hole max. Ø 6 mm</p>
	



When using a drill, you should absolutely ensure that the base plate is firmly clamped. Before drilling, the pressure must be reduced and carefully drilled. A sudden break-through of the drill bit can be the result.

» CONNECTION PLAN

The NOVOS 3 timer can be operated with 24 V AC/DC (±10%) or alternatively with 230 V AC. The connection diagram is shown below:

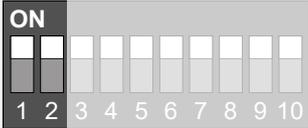
<p>NOVOS 3 Timer (24 V)</p>  <p>7 -UB+ — 24 V AC/DC (±10%) 6 -GND — 0 V ⊥ 5 - 4 - 3 -NC — Relay 2 -Common — Relay 1 -NO — Relay</p>	<p>ATTENTION</p> <p>Do not connect the unused power supply connectors!</p> <p>Relay: max. 250 V AC / 6A</p>	<p>NOVOS 3 Timer (230V AC)</p>  <p>7 - 6 -N — 0 V ⊥ 5 -L — 230 V AC 4 - 3 -NC — Relay 2 -Common — Relay 1 -NO — Relay</p>
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Attention! When using the relay outputs with 230 V AC, protect them in accordance with the applicable directives and standards (IEC 60127-2)!

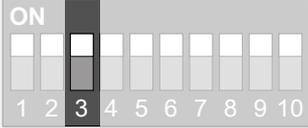
» CONFIGURATION (DIP SWITCHES)

DIP 1	DIP 2	Time interval
off	off	5 / 10 / 15 / 20 / 25 / 30 minutes
on	off	10 / 20 / 30 / 40 / 50 / 60 minutes
off	on	2 / 4 / 6 / 8 / 10 / 12 hours
on	on	1 / 2 / 3 / 4 / 5 / 6 hours



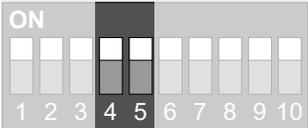
The diagram shows 10 dip switches labeled 1 to 10. Switches 1 and 2 are grouped under the label 'ON'. Switch 1 is in the 'on' position (up), and switch 2 is in the 'off' position (down). Switches 3 through 10 are all in the 'off' position.

DIP 3	EPD Mode
off	Background black / characters white
on	Background white / characters black



The diagram shows 10 dip switches labeled 1 to 10. Switch 3 is in the 'on' position (up), and all other switches (1, 2, 4, 5, 6, 7, 8, 9, 10) are in the 'off' position.

DIP 4	DIP 5	LED Brightness
off	off	0 %
on	off	25 %
off	on	50 %
on	on	100 %

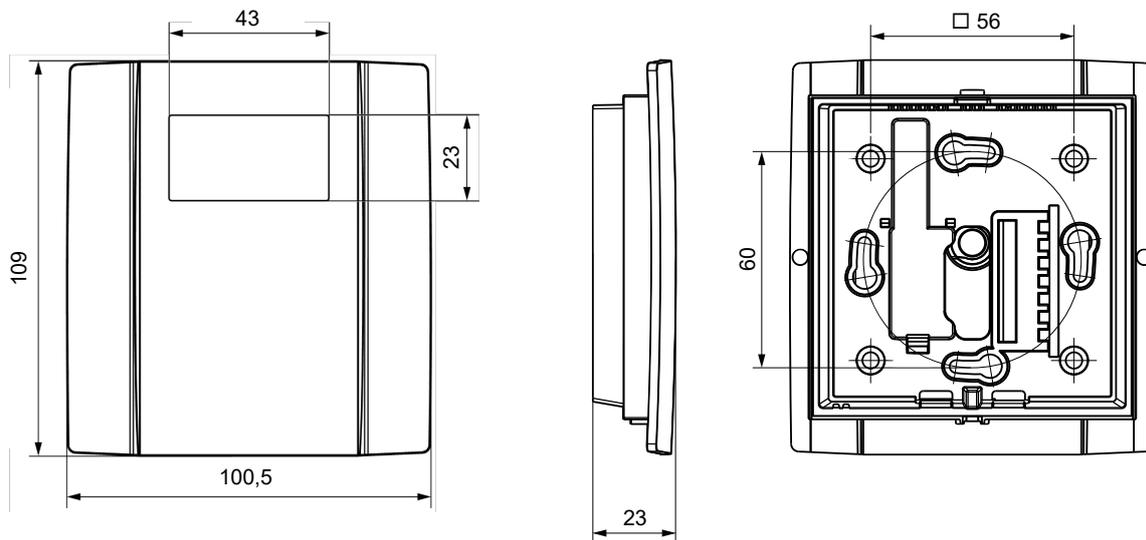


The diagram shows 10 dip switches labeled 1 to 10. Switches 4 and 5 are in the 'on' position (up), and all other switches (1, 2, 3, 6, 7, 8, 9, 10) are in the 'off' position.

» COMMISSIONING

1. Mount the base plate.
2. Install the electrical connection according to the wiring diagram.
3. Configure the dip switches in the top section.
4. Place upper part on base plate.
5. Switch on power supply.
6. Device is ready to be used.

» DIMENSIONS (MM)



» ACCESSORIES (OPTIONAL)

Plugs and screws (2 pcs. each)
 PSU-UP24 – flush mount power supply 24 V (AC Input: 100..240 V ~ | DC Output 24 V = 0,5 A)

Item No. 102209
 Item No. 645737

Mounting adapter for surface-mounting white
 Mounting adapter for surface-mounting black

Item No. 795050
 Item No. 795074