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TECH WSR-01m P Temperature Controller

TECH WSR-01m P Temperature Controller Instruction Manual

TECH

TECH WSR-01m P Temperature Controller

Specifications

- Power supply voltage: 1.2W (WSR-01m), 1.4W (WSR-02m, WSR-03m)

- Power consumption: 0.2W
- Max load: 4A (AC1)* / 200W (LED)
- Communication: Wired (TECH SBUS)
- Dimensions: 164 x 84 x 16
- * AC1 load category: single-phase, resistive or slightly inductive AC load

Product Usage Instructions

Device Description
The device features various buttons and indicators:

- 1 – Registration button for the switch
- 2 – Registration button for the controller
- 3 – Current time
- 4 – Current temperature
- 5 – Set temperature
- 6 – Output button
- 7 – Navigation buttons
- 8 – Menu button
- 9 – Terminating resistor
- 10 – Floor sensor

Operation
To change the displayed parameter, follow these steps:

1. Current temperature -> humidity -> floor temperature (after connecting the sensor)

Icons may appear indicating the need for cooling, heating, or no need for either.

Menu Navigation
If the controller is assigned to a virtual thermostat, use the buttons to set the temperature range and enable/disable automatic lock. Confirm with the Menu button or wait approximately 5 seconds.

Switch Buttons on WSR-03m
The outer buttons control lighting, while the middle button functions as a programmable button. It can be used to trigger automation programmed in the Sinum Central.

FAQ

- **How do I register the device to the Sinum system?**

  To register the device in the Sinum Central, activate the Identification Mode in Settings > Devices > SBUS Devices > + > Identification Mode and hold down the registration button on the device for 3-4 seconds. The corresponding device on the screen will be highlighted.
- **What is the purpose of the terminating resistor (9)?**

  Holding down both buttons and then switching to position ON (end of line) or position 1 (middle of line) sets the terminating resistor.
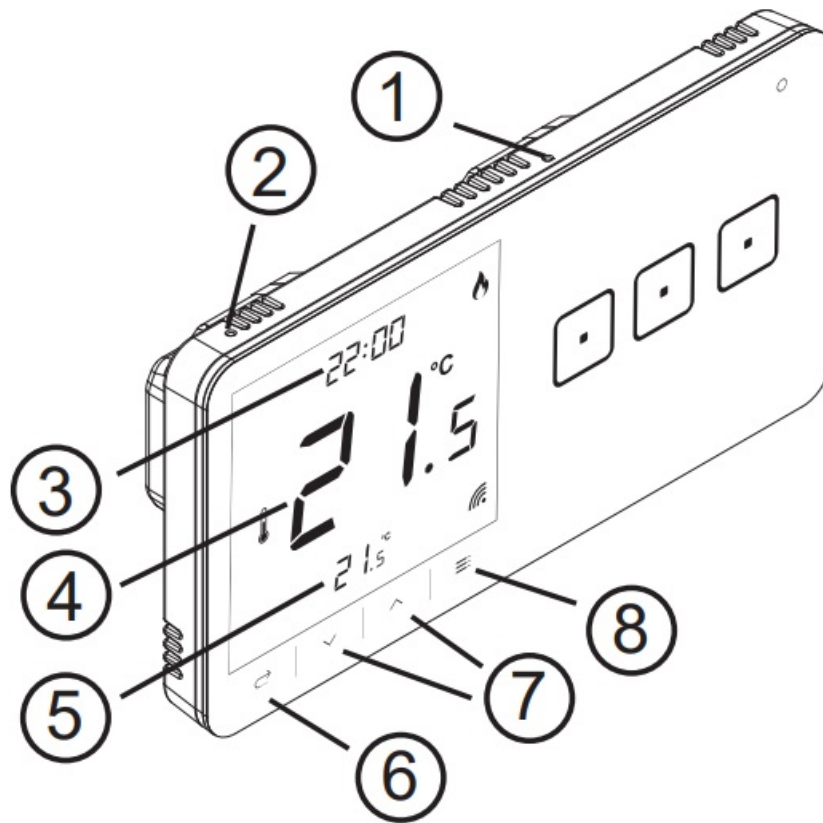
Description

The WSR-01m / WSR-02m / WSR-03m light switch with regulator is a functional device for controlling the room temperature, lighting or other device from switch or via the Sinum Central device. In the Sinum Central device, the user can program the conditions for specific automations. Communication with the Sinum Central device is done by wire.

WSR-01m/WSR-02m/WSR-03m has a built-in temperature and humidity sensor and a light sensor that adjusts the brightness of the button backlight to the current brightness level in the room. Optionally, a floor temperature sensor can be attached to the device.

1. Switch registration button

2. Regulator registration button

3. Actual time

4. Actual temperature

5. Pre-set temperature

6. Return button

7. Navigation buttons

8. Menu button

9. Terminating resistor

10. Floor sensor

NOTE!

- The drawings and the number of buttons may be different depending on the version you have.
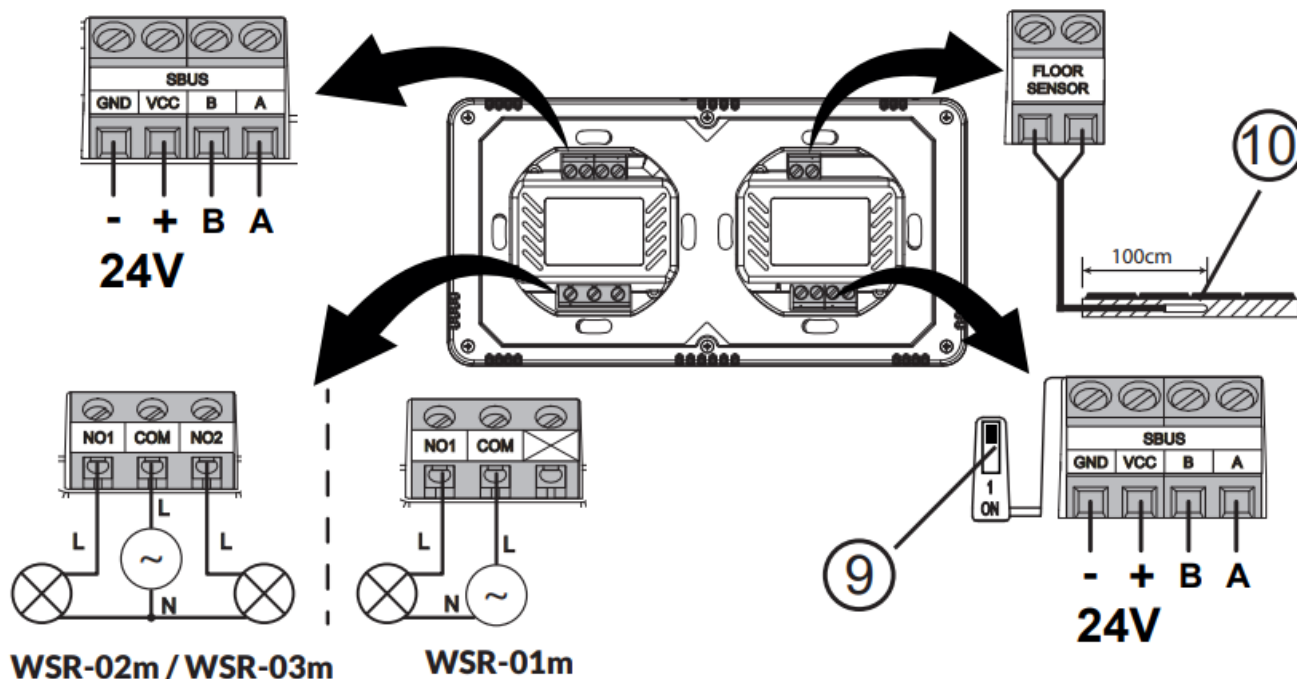- The maximum load of a single output for LED lighting is 200W.

How to register the device in the sinum system

The device should be connected to the Sinum central device using the SBUS connector and then enter the address of the Sinum central device in the browser and log in to the device. In the main panel, click the

Settings > Devices > SBUS devices > (+) > Add device. Then briefly press the registration button 1 or 2 on the device. The regulator and the switch are treated as two individual devices and should be registered separately. After a properly completed registration process, an appropriate message will appear on the screen. Additionally, the user can name the device and assign it to a specific room. INFO: When registering the regulator, the humidity sensor and floor sensor (if it is connected) will also be registered automatically.

How to identify the device in the Sinum system
To identify the device in the Sinum Central, activate the Identification Mode in the Settings > Devices > SBUS Devices > + > Identification Mode tab and hold the registration button on the device for 3-4 seconds. The device used will be highlighted on the screen.

WSR-02m / WSR-03m   WSR-01m

Operation

Pressing button ⟳ the displayed parameter changes: current temperature -> humidity -> floor temperature (after connecting the sensor)

Heating/cooling control is possible after assigning the controller in the Sinum Central device to a virtual thermostat. On the display may appear:

– Icon ❄ (cooling mode) – the need for cooling

– Icon 🔥 (heating mode) – the need for heating
– No icon – no need for heating/cooling

Icon ✋ informs about active manual mode

Changing the preset temperature with the ⋀ , ⋁ buttons and confirming with the Menu button. The set temperature will be permanent.

If the regulator is assigned to a virtual thermostat, after changing the temperature, use the ⋀ and ⋁ to specify the time range of the set temperature [0 ÷ 24h, Con (permanently) or Off (inactive change)], confirm with the Menu button ☰ .

Button lock – pressing the Menu button will activate the function Loc; use the ⋀ or ⋁ to select „yes" or „no" (automatic lock on/ off). Confirm with the Menu button or wait approx. 5 sec. Holding ⋀ and ⋁ simultaneously until the padlock icon disappears unlocks the buttons.

Controller connection – the system has a terminating connection. The position of the regulator on the transmission line with the Sinum Central is determined by the position of the terminating switch 9 . Set to ON position (regulator at the end of the line) or position 1 (regulator in the middle of the line).

EXIT and MENU button regulator functions

Pressing EXIT

- change of the displayed parameter: current temperature, air humidity, floor temperature (optional)
- exit from the menu

EXIT hold

- manual control off

Pressing MENU

- button lock option is displayed
- next menu function
- confirmation of settings

Holdig MENU

- enter the menu

WSR-03m switch butons
The outermost buttons are used to control the lighting whereas the middle button serves as a programmable button. Using this button the user may activate the automation which has been previously programmed in the Sinum central device.

Menu

Hold down the Menu buttton until appears CAL option. Change options with ∧ and ∨ buttons, confirm with Menu button. Options available:

CAL - temperature sensor calibration,
FAb - factory reset,
rEG - device registration,
UEr - software information.

Technical data

	Switch	Regulator
Power supply	24V DC ±10%	24V DC ±10%
Max. power consumption	1,2W (WSR-01m) 1,4W (WSR-02m, WSR-03 m)	0,2W
Maximum output load	4A (AC1)* / 200W (LED)	–
Operation temperature	5°C ÷ 50°C	
Communication	Wired (TECH SBUS)	
Dimensions [mm]	164 x 84 x 16	
Installation	Flush-mountable (electrical box 2 x ø60 mm)	

Notes
TECH Controllers is not responsible for any damages resulting from improper use of the system. The manufacturer reserves the right to improve devices, update software and related documentation. The graphics are

provided for illustration purposes only and may differ slightly from the actual look. The diagrams serve as examples. All changes are updated on an ongoing basis on the manufacturer's website.
Before using the device for the first time, read the following regulations carefully. Not obeying these instructions may lead to personal injuries or controller damage. The device should be installed by a qualified person. It is not intended to be operated by children. It is a live electrical device. Make sure the device is disconnected from the mains before performing any activities involving the power supply (plugging cables, installing the device etc.). The device is not water resistant.

EU Declaration of conformity
Tech Sterowniki II Sp. z o.o. , ul. Biała Droga 34, Wieprz (34-122) Hereby, we declare under our sole responsibility that the
WSR-01m / WSR-02m / WSR-03m is compliant with Directive :
2014/35/UE • 2014/30/UE • 2009/125/WE • 2017/2102/UE

For compliance assessment, harmonized standards were used:

- PN-EN 60669-1:2018-04
- PN-EN 60669-1:2018-04/AC:2020-04E
- PN-EN 60669-2-5:2016-12
- PN-EN IEC 62368-3:2020-08
- EN IEC 63000:2018 RoHS

Wieprz, 01.12.2023

- Paweł Jura
- Janusz Master
- Prezesi firmy

The full text of the EU declaration of conformity and the user manual are available after scanning the QR code or at **www.tech-controllers.com/manuals**

The product may not be disposed of to household waste containers. The user is obliged to transfer their used equipment to a collection point where all electric and electronic components will be recycled.

Documents / Resources

TECH WSR-01m P Temperature Controller [pdf] Instruction Manual
WSR-01m P, WSR-01m L, WSR-02m P, WSR-02m L, WSR-03m P, WSR-03m L, WSR-01m P
Temperature Controller, WSR-01m P, Temperature Controller, Controller

References

- 🌐 **controllers.com**
- **Intelligens fűtés-hűtés, fűtési-hűtési megoldások - TECH vezérlők gyártója | TECH vezérlők**
- 🌐 **Sinum - TECH Controllers**
- **Intelligent heating, smart heating solutions - manufacturer of controllers | TECH Controllers**
- **Manuals - TECH Controllers**
- **TECH Controllers - Teplo ve Vašem domě**
- **TECH Controllers - Teplo vo Vašom dome**
- **Soluţia de acasă de economisire a energiei - producător de controlere I Tech-Controllers**
- **User Manual**