



Tarus String

Assembly instructions

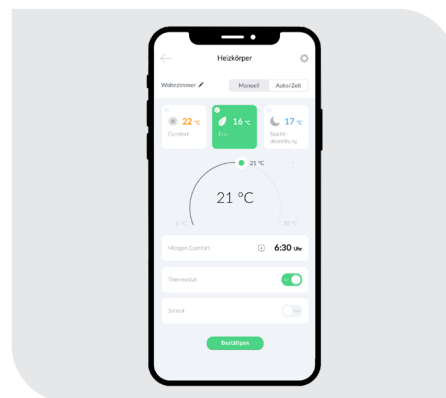
Brief description:

For control and regulation of single-pipe heating systems. Also suitable for all separate hydraulic supply and return lines. Installation in the flow line. Can be used in combination with Avalon and Avalon Combo radiator thermostat. Control of the Avalon thermostats with the Tarus String Controller unit.

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Scope of delivery & introduction



Tarus String Controller and Valve 1" Gateway GT-100 with connection accessories ASG-101 with blossomic iOS and Android App

“ All heating programs and parameters, such as temperature and heating time settings, can be set and controlled easily and conveniently via the app. Even a basic setting of the heating programs via the thermostat is possible at any time. ”

Connection of the Gateway GT-100



Step 1

Connect the network cable

Please connect the supplied network cable to the gateway and router.

Step 2

Connect power supply unit

Now connect the power supply unit (230 V) to the gateway.

Step 3

Antenna

In the third step, please screw the included antenna to the gateway.

Step 4

Green diode on the gateway

Display of the radio connection

- **green diode flashes:** The device is being searched and is establishing a radio connection.
- **green diode lights up continuously:** Radio connection has been established.

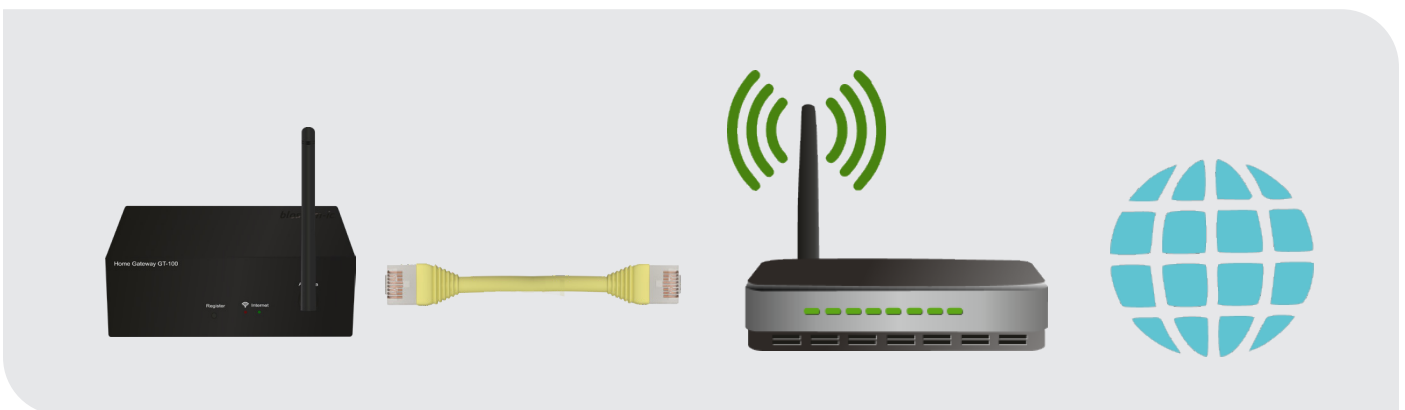
Step 5

Red diode on the gateway

Display of the Internet connection

- **red diode flashes:** The Internet connection is established.
- **red diode lights up continuously:** The Internet connection has been established.

Connection diagram, Gateway GT-100 to the Internet



Mounting the Tarus String Controller and the Tarus String Valve

For connecting the Tarus String Valve and mounting the Tarus String Controller please refer to the sketches on pages 9 and 10.

Registration of Tarus String Controller

Registration of the Tarus String Controller with the GT-100 Gateway.

Step 1 | Blue diode on the Tarus String Controller

- As soon as the Tarus String Controller is supplied with power, a blue diode on the controller flashes

Step 2 | Press the "Register" key on the gateway Please register all devices within 30 seconds

Step 3 | Now press the "Auto" button on the Tarus String Controller for at least 3 seconds

Step 4 | Gateway and Controller diodes will light up continuously after about 25 sec.: Connection was successful

The diodes are still flashing - Possible error sources:

- Please make sure that your WLAN and Internet connection is active and repeat the steps 1 to 4.
- In the event of a power failure, the thermostats go into standby mode and display REG. The system reconnects automatically after 2 hours. By pressing any button on the thermostat, they are directly reconnected.

Coupling of Tarus String with Avalon wireless radiator thermostat

Step 1 | Press the "AUTO" key on the tare string for 3 seconds (diode starts flashing)

Step 2 | Press the "SLEEP" button on the thermostat until "blind" appears in the display

Step 3 | Press "SLEEP" button again ("blind" flashes) - thermostat will search for connection to the Tarus String

Step 4 | After a short time "Suc" appears on the display! (The registration was successful)

- Avalon and Tarus String are connected

Step 5 | If "Fail" appears in the display, please repeat steps 1-4

Coupling Tarus String with Avalon Combo radio wall thermostat

Step 1 | Press the "AUTO" key on the tare string for 3 seconds (diode starts flashing)

Step 2 | Press the "SLEEP" button on the thermostat until "Alo" appears in the display

Step 3 | Select with the up arrow key until "blind" appears in the display

Step 4 | After "blind" is selected, press the "SLEEP" button (blind starts blinking)

• The thermostat seeks the connection to the Tarus String

Step 5 | After a short time "Suc" appears on the display! (The registration was successful)

• Avalon Combo Thermostat and Tarus String are connected

Step 6 | If "Fail" appears in the display, please repeat steps 1-5

Control behaviour of the Avalon thermostats with the Tarus String Controller Unit

1. The Tarus String and Avalon thermostats work together as one unit

Example: Four radiators hang from the Tarus String. Three of these radiators are on "Eco" or "Off" function, then the Tarus String Controller is still on valve on function. The whole string is supplied with heat.

2. The last radiator in the line does not need any more heat either. All 4 radiators are on "Eco" or "Off" function or have reached there set temperature, then the Tarus String Controller detects that no more heat is needed and closes the Tarus String Valve automatically. Now the entire string is closed from the Tarus String Controller and no unnecessary circulation takes place.

This saves energy and makes heating even more efficient.

Download the blossomic App

The blossomic app is available for both iOS and Android. You can find the app by entering „blossomic“ in the App or Google PlayStore. Alternatively, you can scan the QR code below with your smart-phone. This leads you directly to the download page of the blossomic app.

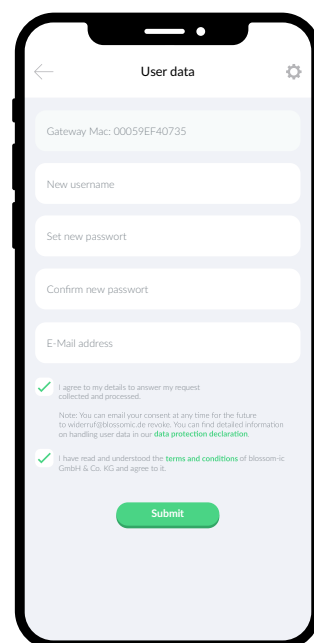
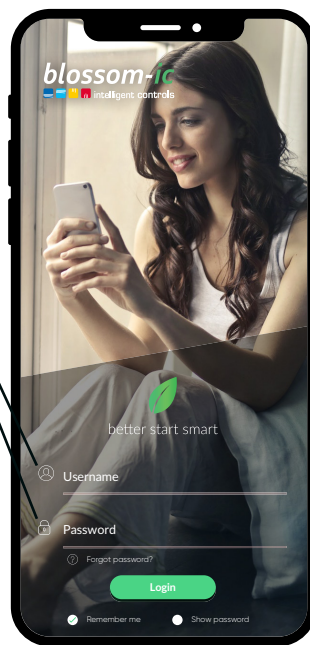
Setting up the blossomic app



For initial registration, use the MAC address of the gateway (12 digits, attached at the back). The MAC address serves as user name and password.

After successful login, you will be asked to provide individual access data.

As soon as you have assigned these data, all heating programs and other parameters can be set easily and conveniently via the app.



Automatic IP address recognition and automatic Voice recognition. There is no need to set daylight savings time, daylight savings time or date and time.



Important notice:

In order to be able to guarantee smooth functionality of all thermostats and devices as a unit, all components (including the devices that are added later) as described on page 5 below (“Registering the radiator thermostat” - steps 2 to 3), are registered via the gateway.

Technical data

Technical data - Tarus String Controller

• Setpoint range	6 ~ 30 °C
• Ambient temperature	0 ~ 50°C
• Ambient humidity	90% (non-condensing)
• Mains Voltage	230VAC / 50Hz
• Dimension	L55 x W170 x H190 (mm)
• Wireless frequency	2.4GHz, ISM Band, 16 channels
• Protection class/type	IP 30
• RF Test	R&TTE Directive 1999/5/EC
• CE	Available
• RoHs	Available
• Type of antenna	PCB-Antenna

Technical data - Gateway GT-100

• Interface	TCP/IP 10/100M , RJ45
• Ambient temperature	0 ~ 50°C
• Ambient humidity	90% (non-condensing)
• Mains Voltage	230V AC / 50/60Hz
• Dimension	L110 x W72 x H42 (mm)
• Wireless frequency	2.4GHz, ISM Band, 16 channels
• Protection class/type	IP 30
• RF Test	R&TTE Directive 1999/5/EC
• CE	Available
• RoHs	Available
• Type of antenna	2.4GHz Monopole 2 dB

Safety Instructions

Attention!

Important notice: Installation and assembly of electrical devices may only be carried out by a qualified electrician. Failure to observe the assembly and installation instructions can result in fire or other dangers.

Attention!

Before removing an existing room thermostat or installing one of our control units and thermostats, it is essential that you switch off the mains supply.

Further Notes:

Please also note that the set room temperature is reached faster in the area where the Tarus room thermostat is installed. Possible small temperature adjustments are necessary

When the batteries are empty and the thermostat switches off, the heating continues to run in Comfort mode to prevent the heating from freezing and the rooms from cooling down unintentionally.

Please note: (This is a security measure, as all our devices are individually controllable and functional, regardless of Internet and app access)

You should replace the batteries immediately to restore normal operation. The controller has a memory function; as soon as it is powered up again, it automatically restores the last set heating program. (The settings on the thermostat are optional, with the app all heating programs and settings can be made easily and conveniently).

Valve protection function:

The system opens and closes the valves automatically once a week, thus ensuring that the valves do not get stuck or block.

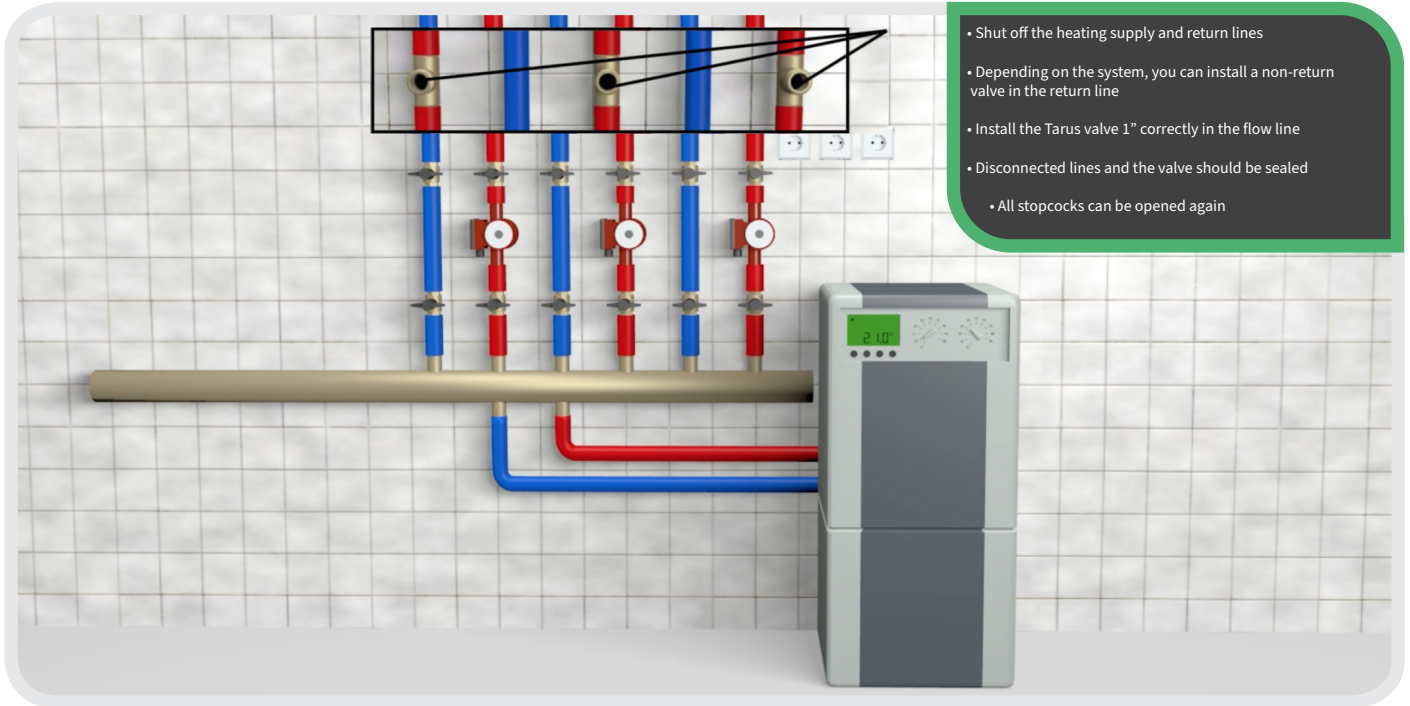
Installation and assembly

Step

1

2

3



- Shut off the heating supply and return lines
- Depending on the system, you can install a non-return valve in the return line
- Install the Tarus valve 1" correctly in the flow line
- Disconnected lines and the valve should be sealed
- All stopcocks can be opened again

Step

1

2

3



- Screw the Tarus String Controller onto the already installed valve and supply the power plug with power

Step

1

2

3



Declaration of conformity

Hereby blossom-ic GmbH & Co. KG hereby declares that the following product: Tarus String Actuator TST-3748 is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. The complete declaration of conformity can be found at the following address: www.blossomic.de/downloads

blossom-ic

 intelligent controls

blossom-ic GmbH & Co. KG

Oberer Buxheimer Weg 60, 87700 Memmingen, Germany

P: +49 8331-756 965 80 **E:** info@blossomic.de

W: www.blossomic.de