WITA heating controllers



Features

- Up to 52 preset hydraulic schemes.
- They may be used for the control of new systems or to replace the installed controllers.
- Room heating or cooling according to the time programme.
- Domestic hot water heating according to the time programme.
- Solar system domestic hot water heating.
- Control of heating systems with a storage tank.
- The possibility of connecting 2 room units.
- BOOST function for intense room heating.
- Integrated solar system protection features.
- 13-language user interface.
- Wizard for an easy and quick device start-up.
- Operational diagnostics featuring error and
- excessive temperature warnings.
- Remote control with the help of the home system.

WHC WHC +

Product description

WITA heating controllers (WHC) are advanced heating controllers, installed in standard-dimension housings of 144 x 96 mm. They have been developed for the control of room heating or cooling as well as domestic hot water heating in single-family homes. They provide control for up to 2 heating circuits, enable switchover between heat sources, and the protection of the return line during the storage tank loading. They are used for heating systems with one or two boilers, a heat pump, a storage tank, and a solar system.

Typical application

- Radiator heating system control.
- Floor heating or cooling system control.
- Convector heating or cooling system control.
- Wall or ceiling heating or cooling system control.
- Domestic hot water heating.

- 1 Graphic display.
- 2 Move left or reduction.
- 3 Move backwards key.
- 4 Menu entry or selection confirmation.
- 5 Help.
- 6 Move right or increase.



and more / Heating controllers 🐢

Technical data	WHC	WHC +
	art. no. R WHC 100	art. no. R WHC 200
Typical application		
Radiator room heating system control	•	•
Floor heating or cooling system control	•	•
Convector heating or cooling system control	•	•
Wall or ceiling heating or cooling system control	•	•
Domestic hot water heating	•	•
Technical characteristics		
No. of preset hydraulic schemes	7	52
No. of room units	2	2
No. of mechanical relays	6	9
No. of solid state relays	-	1
No. of temperature sensor inputs	7	8
No. of analogue outputs (0÷10 V or PWM) for the control of the circulation pump or an energy source	1	2
BUS option - the interconnection of WHC controllers and connection with other controllers of the same brand	•	•
Wireless room unit & sensors	•	•
System control		
Control of a heating system with radiators	•	•
Floor heating or cooling system control	•	•
Convector heating or cooling system control	•	•
Wall or ceiling heating or cooling system control	•	•
Domestic hot water heating system control	•	•
Heating circuits control		
Direct circuit	1	1
Mixing circuit	1	2
Domestic hot water heating	•	•
Switchover between direct heating circuit and domestic hot water heating	•	•
Domestic hot water circulation	•	•
Automatic switchover between heat sources	-	•
Control of the supply line constant temperature	•	•
Single-stage storage tank loading	-	•
Heat source control		
Solid fuel boiler	•	•
Solid fuel boiler with a pellet burner		•
Liquid fuel boiler	•	•
Liquid fuel boiler with a two-stage burner	•	•
Combined boiler		•
Gas flow boiler	-	•
Heat pump	•	•
Storage tank	•	•
Auxiliary heating with electricity	•	•
Solar collectors	-	•
Domestic hot water heating		
With a primary heating source	•	•
With a storage tank	•	•
Using a solar system		•
User functions		
Room heating or cooling according to the time programme		•
Automatic winter/summer mode switchover	•	•
PARTY function – activation of the comfort operation mode	•	•
LICU TUNCTION - ACTIVATION OF THE ECONOMY OPERATION MODE	•	•
HOLIDAY function – activation of the operation mode during the holiday season	•	•
Domestic not water heating according to the time programme	•	•
One-time domestic not water neating	•	•
Eulering for screed drying		
Function for screed drying	•	•

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Technical data	WHC	WHC +
Heating system protection	art. no. R WHC 100	art. no. R WHC 200
Anti-legionella protection (for a controlled energy source)	•	•
Storage tank overheating protection	•	•
Boiler overheating protection	•	•
Collector frost protection	-	•
Forced pump start at the highest collector temperature	-	•
Switching off of the collectors when the safety temperature has been exceeded	-	•
Solar system protection when collectors are overheating	-	•
Storage tank recooling to the desired temperature	•	•
Periodic starting up of pumps and mixing valves during a period of inactivity	•	•
A comprehensive overview of the heating system operation		
Graphic display of temperatures according to days of the last week	•	•
Detailed display of temperatures for the current day	•	•
Notifications on the activated protection functions and warnings about system failures	•	•
Possibility to simulate sensors and analyse the system operation	•	•
Remote access		
Possibility of USB connection to a PC	•	•
Connectivity to the home platform providing remote control using a smartphone or tablet	•	•
Setup and installation		
Wizard for an easy and quick device start-up		•
13-language user interface: EN, DE, FR, NL, PL, ES, SL, IT, CS, LT, GR, HU, HR		•
Setting up the operation by selecting the hydraulic scheme		•
"Help" button for quick help with the setup		•
Graphically adjustable time programmes	•	•
Option to simulate the system operation	•	•
Logging and display of changes made to the setup	•	•
Option for retrieval of the basic setup in the event of data loss or unwanted changes	•	•
Option for programming free outputs	•	•
Possibility of installation onto the wall or into a cutout (opening)	•	•
Simple installation and connection	•	•

Outlined features

WHC controller installation

The WHC controller is used for the control of modern heating systems or as a replacement controller in older heating systems. It can be installed into a standard cutout on the boiler or on the wall.



Example of installation into a cutout or aperture on the boiler



Example of installation onto the wall



Technical specifications

WHC, WHC +

Backlit graphic display		
Operating hours meter	•	
Weekly program timer	•	
Connection voltage	230 V~, 50 Hz	
Own consumption	5 W	
Energy consumption in the standby mode	Max. 0.5 W	
Relay outputs	4 (1) A~, 230 V~	
Triac output	1 (1) A~, 230 V~	
Clock power supply	Battery CR1025 (Li-Mn) 3 V	
Clock accuracy	+/-1 s (24 h) at 20 °C	
Degree of protection	IP20 according to EN 60529	
Safety class	I according to EN 60 <mark>730</mark> -1	
Operation mode	1B according to EN 60 <mark>730</mark> -1	
Type of temperature sensors	Pt1000 or KTY10	
Operation mode	3-point PID	
Housing material	ASA + PC - thermoplastic	
Permissible ambient temperature	5÷40 °C	
Storage temperature	-20÷65 °C	
Product weight	570 g	

Dimensions





Hydraulic schemes for WHC and WHC +



WITA heating controllers

Hydraulic schemes for WHC +



Hydraulic schemes for WHC +

