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SELTRON
SMART HEATING

ACC
Catalogue



Compact constant temperature controller
ACC30 | ACC40

They regulate the return temperature of the solid fuel boilers or the charging of the hot water buffer tank.

Compact constant temperature controller ACC



Presentation

ACC compact controllers are integrated into the actuator housing and are intended for the regulation of the constant temperature of the flow or return line. They are used in heating or cooling systems. The controller allows temperature settings in the range 0–99°C.

Application

- Regulation of return temperature of the solid fuel boilers.
- Supply device charging.
- Regulation of the inflow temperature for swimming pools and other constant temperature heating or cooling systems.

Capacities

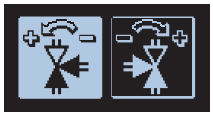
- 8 preset hydraulic circuit diagrams.
- 1 mechanical relay.
- Option for regulating the mixing valve according to the temperature of the piping and the source.
- Pump regulation according to the temperature of the piping and the source.
- Option for simulating system operation.
- Direct mounting on over 20 different mixing valves.
- Adjustment of the direction of mixing valve rotation.
- Innovative connector system for sensor connection.
- Remote control option with the help of the SeltronHome system.



Step 1



Step 2


Step 3

Start-up wizard

The ACC controller is equipped with a start-up wizard, which takes you through the initial settings of the controller in 3 steps.
Step 1: language selection.
Step 2: hydraulic circuit diagram selection.
Step 3: selection of opening direction of the mixing valve.





Setting the display orientation

The ACC controller is equipped with a 1.7" OLED display.
In the controller settings, you can choose between the normal orientation of the display or the orientation of the display with a rotation of 180°.



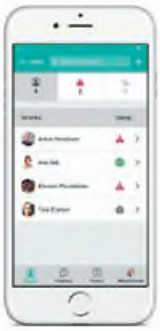
Innovative connector system for connecting temperature sensors

The controller is supplied with wired sensors with various coloured connectors installed. Make the connection by simply inserting the plug into the appropriate unit on the socket. In order to prevent an incorrect connection, the plug-in locations have the same colours as the plugs.



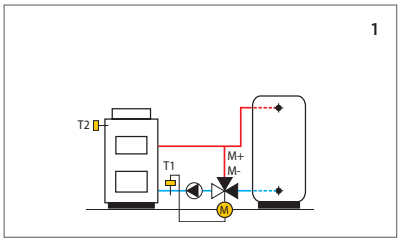
Direct mounting to more than 20 mixing valves

The controllers are available with suitable accessories, which enable direct mounting to more than 20 mixing valves of different manufacturers.



Remote control with the help of the SeltronHome system

The ACC controllers may be connected to the SeltronHome platform, which allows remote control of the heating using a smart phone or tablet. Remote control is enabled through the CLAUSIUS application for the final user, and the KELVIN application for the service personnel.

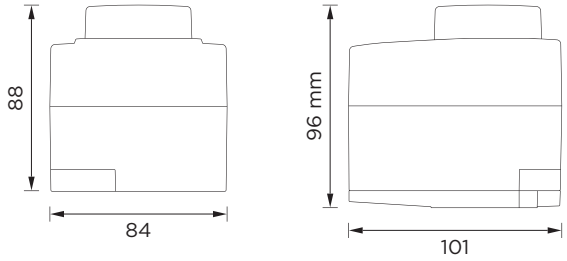
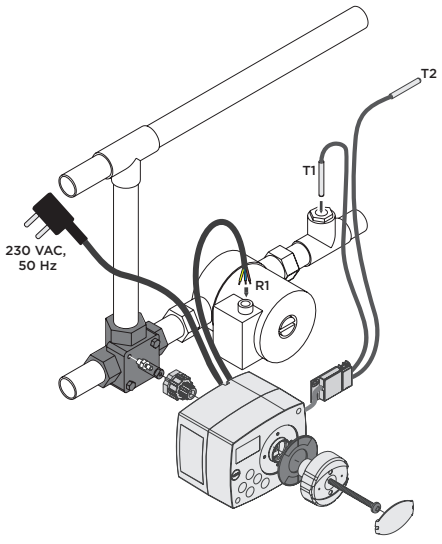


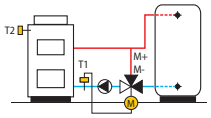
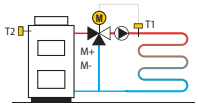
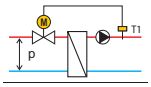
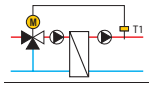
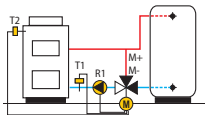
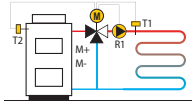
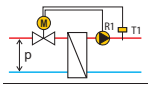
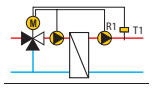
Typical hydraulic circuit diagram

Regulation of the return line to the solid fuel boiler and supply device charging.

Example: hydraulic circuit diagram 1.

Application	ACC30	ACC40
Regulation of return temperature of the solid fuel boilers	●	●
Supply device charging	●	●
Regulation of the inflow temperature for swimming pools and other constant temperature heating or cooling systems	●	●
Technical characteristics		
No. of preset hydraulic circuit diagrams	4	8
No. of mechanical relays	x	1
No. of solid state relays	2	2
No. of temperature sensor inputs	2	2
Mixing valve rotation signalling	●	●
Circulation pump operation display	●	●
Allowed temperature setting in the range 0–99°C	●	●
Additional sensor for measuring the source temperature	●	●
Option for regulating the mixing valve according to the temperature of the piping and the source	●	●
Option for regulating the pump according to the temperature of the piping and the source	—	●
Regulation of heating systems		
Heating the supply device	●	●
Single-stage supply device charging	●	●
Heating system protection		
Boiler protection against overheating	●	●
Antiblock function for pumps	●	●
Antiblock function for pumps and switching valves	●	●
Data display		●
Displaying temperatures and other performance data	●	●
Detailed display of temperatures for the current day	●	●
Overview of temperature data for the last week	●	●
Signalling the direction of valve rotation	●	●
Signalling circulation pump operation	●	●
Operational self-diagnostics featuring error warnings and notifications regarding excessive temperatures	●	●
Remote access		
Possibility of USB connection with PC	●	●
Connectivity with the SeltronHome platform allowing remote control using a smartphone or tablet	●	●
Setup and assembly		
Wizard for an easy and quick device start-up	●	●
13-language user interface Languages: EN, DE, FR, NL, PL, ES, SL, IT, CS, LT, GR, HU, HR	●	●
Connector system for sensor connection	●	●
Setting up the operation by selecting the hydraulic circuit diagram	●	●
“Help” button for quick help with settings	●	●
Adjustment of the direction of mixing valve rotation	●	●
Option for simulating system operation	●	●
Logging and display of changes made to settings	●	●
Option for retrieval of basic settings in the event of data loss or unwanted changes	●	●
Possibility of mounting on different types of mixing valves	●	●
Sensors with “Plug & Play” plug	●	●

Technical specifications	ACC30	ACC40
Illuminated OLED display	•	•
Touch keyboard	•	•
Weekly program clock	•	•
Energy consumption in stand-by	Max. 0.25W	
Torque	6Nm	
Opening angle	90 < °	
Opening speed	2min/90 < °	
Operation mode	3-point PID	
Relay outputs	•	1×(5(1)A ~, 250V ~)
Mains voltage	230V ~, 50Hz	
Max. own consumption	1.5VA	
Hour power supply	Battery CR1025 (Li-Mn) 3V	
Hour accuracy	+/- 1s (24h) at 20°C	
Protection grade	IP20 according to 60529	
Protection class	I according to EN 60730-1	
Type of temperature sensors	Pt1000	
Housing material	PC – black transpar-ent	
Operating temperature	0–50°C	
Storage temperature	-20°C up to +65°C	
Weight	900 g	1000 g
No. of pieces in the packaging unit	12 pcs	
Dimensions (W×H×D): 101×84×88 (96) mm		
Electrical connection		

Hydraulic circuit diagrams for ACC30, ACC40			
1	2	3	4
			
Solid fuel boiler, hot water buffer tank, regulation of constant return temperature.	Solid fuel boiler, mixing circuit, regulation of constant inflow temperature.	Heat exchanger, regulation of constant inflow temperature.	Heat exchanger, regulation of constant inflow temperature.
Hidravlične sheme za ACC40			
1	2	3	4
			
Solid fuel boiler, hot water buffer tank, regulation of constant return temperature.	Solid fuel boiler, mixing circuit, regulation of constant inflow temperature.	Heat exchanger, regulation of constant inflow temperature.	Heat exchanger, regulation of constant inflow temperature.

Item	Code	Description
	1ACC3010-040	Constant temperature controller SELTRON ACC30 with sensor TF/Pt
	1ACC4010-040	Constant temperature controller SELTRON ACC40 with sensor F/Pt
Accessories		
	1TFPTC1MP-000	Submersible temperature sensor SELTRON TF/Pt, 1 m cord, with a 3.5 mm plug
	1TFPTC3MP-000	Submersible temperature sensor SELTRON TF/Pt, 3 m cord, with a 3.5 mm plug

Simplicity solutions

SELTRONHOME

SCC controllers can be connected into the SeltronHome environment for comprehensive remote control and operational regulation. Remote access is provided by the Clausius application for end users and the Kelvin application for installers and servicemen.

SETUP WIZARD

The controller leads you in 2 steps through the first commissioning; all other parameters are preset.

SYSTEM SIMULATION

The simulation program is a special function which allows temperature sensor simulation thereby enabling the user to test the system's operation.

INTERACTIVE HELP

HELP

Fast and easy access to short manuals, notifications, warnings, software version, etc.