Compact constant temperature controllers
ACC30 | ACC40

Presentation

ACC compact controllers are integrated into the actuator housing and are intended for the control of the constant supply or return temperature. They are used in heating or cooling systems. The controller features temperature settings in the range 0÷99 °C.

Typical application

- Solid fuel boiler return temperature control.
- Storage tank loading.
- Supply temperature control for pools and other constant temperature heating or cooling systems.

Features

- Up to 3 preset hydraulic schemes.
- 1 mechanical relay.
- Option for controlling the mixing valve according to the temperature of the pipeline and the source.
- Pump control according to the temperature of the pipeline and the source.
- Direct installation onto over 20 different mixing valves.
- The possibility to configure the mixing valve opening direction.
- Innovative connector system for sensor connection.

Description of settings buttons

1 - Graphic display.

2 - Manual operation clutch.

3 - ↰ Move backwards.

4 - ⊖ Move to the left, reducing.

5 - ✔ Entry into the menu, confirmation of selection.

6 - ⊕ Move to the right, increasing.

7 - ? Help.

8 - LED indicator – valve movement to the right.

9 - Red-coloured LED indicator – error.

10 - LED indicator – valve movement to the left.

Typical application	ACC30	ACC40
Solid fuel boiler return temperature control	●	●
Storage tank loading	●	●
Supply temperature control for pools and other constant temperature heating or cooling systems	●	●
Technical characteristics		
No. of preset hydraulic schemes	3	3
No. of mechanical relays	—	1
No. of temperature sensor inputs	2	2
Mixing valve turning signalling	●	●
Circulation pump operation indication	—	●
Allowed temperature setting in the range 0÷99 °C	●	●
Auxiliary sensor for measuring the source temperature	●	●
The option for controlling the pump according to the temperature of the pipeline and the source	—	●
System control		
Single-stage storage tank loading	●	●
Heating system protection		
Boiler overheating protection	●	●
Antiblock function for pumps	●	●
Antiblock function for pumps and diverting 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 valve turning direction	●	●
Signalling circulation pump operation	●	●
Notifications on the activated protection functions and warnings about system failures	●	●
Remote access		
Possibility of USB connection to a PC	●	●
Setup and installation		
Startup wizard for an easy and quick device startup	●	●
13-language user interface: 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 scheme	●	●
"Help" button for quick help with the setup	●	●
Adjustment of the mixing valve turning direction	●	●
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 of installation onto different types of mixing valves	●	●
Sensors with a connector for a "Plug & Play" installation	●	●

Outlined functions
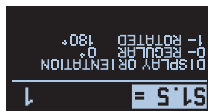

Step 1

Step 2

Step 3

Start-up wizard

The ACC controller is equipped with a start-up wizard, which takes you through the initial setup of the controller in 3 steps.

Step 1: language selection.

Step 2: hydraulic scheme selection.

Step 3: selection of opening direction of the mixing valve.
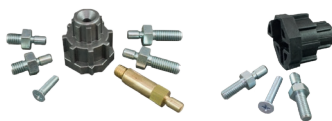

Setting the display orientation

The ACC controller is equipped with a 1.3" OLED display.
In the controller setup, you can choose between the normal orientation of the display or the orientation of the display with a rotation of 180 °.
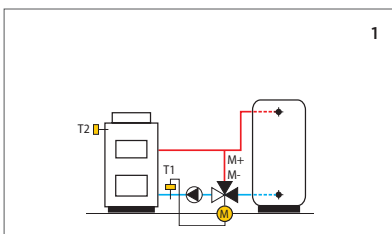

Innovative connector system for connecting temperature sensors

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

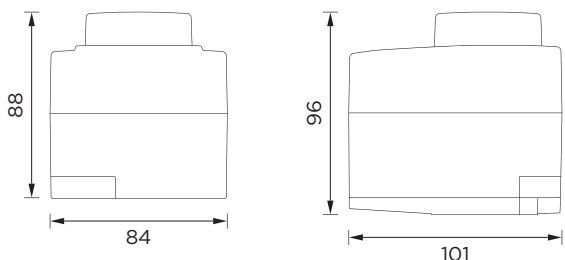**Direct installation onto more than 20 mixing valves**

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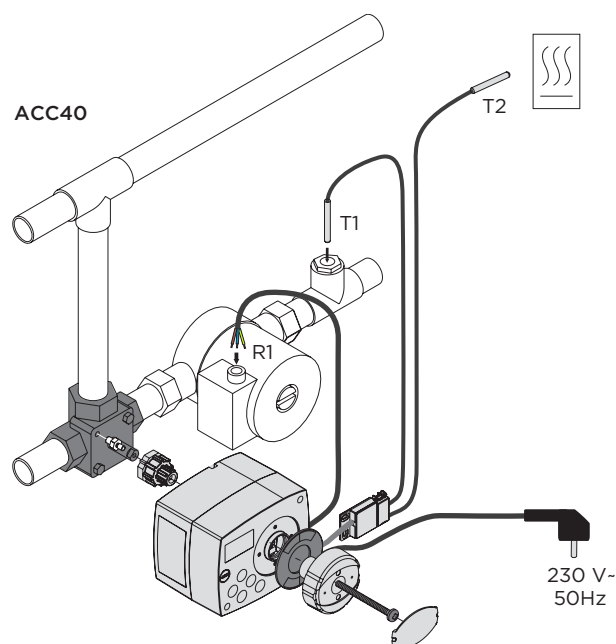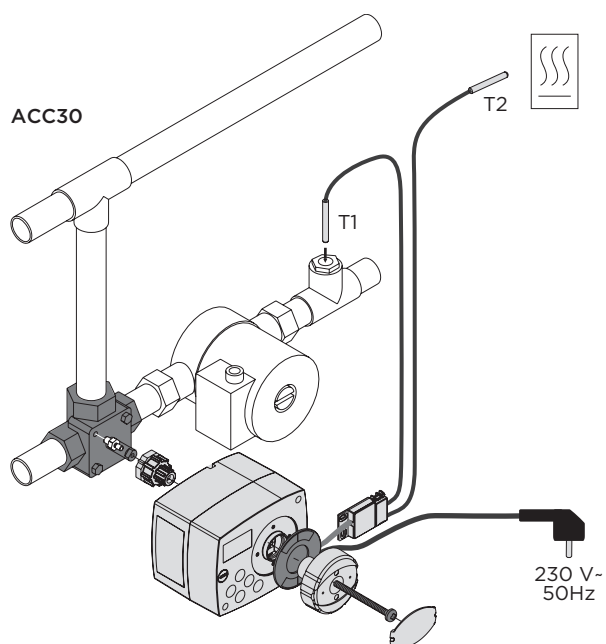

Typical hydraulic scheme

Solid fuel boiler, storage tank, constant return temperature control.

Example: hydraulic scheme 1.

Technical specifications	ACC30	ACC40
Backlit OLED display	●	●
Touch keyboard	●	●
Weekly program timer	●	●
Own consumption	Max. 3.5 W	
Energy consumption in the standby mode	Max. 0.25 W	
Torque	6 Nm	
Running angle	90 < °	
Running speed	2 min / 90 < °	
Operation mode	3-point PID	
Relay outputs	-	1×(5(1) A~, 250 V~)
Connection voltage	230 V~, 50 Hz	
Clock power supply	CR1025 battery (Li-Mn) 3 V	
Clock accuracy	+/-1 s (24 h) at 20 °C	
Degree of protection	IP20 according to 60529	
Safety class	I according to EN 60730-1	
Type of temperature sensors	Pt1000	
Housing material	PC – black transparent	
Operating temperature	0÷50 °C	
Storage temperature	-20÷65 °C	
Product weight	720 g	800 g
No. of pieces in the packaging unit	24 pcs	12 pcs
Dimensions		

Electrical connection

ACC30

ACC40

Hydraulic schemes for ACC30, ACC40

1	2	4
Solid fuel boiler, storage tank, constant return temperature control.	Solid fuel boiler, mixing circuit, constant supply temperature control.	Heat exchanger, constant supply temperature control.

Hydraulic schemes for ACC40

1	2	4
Solid fuel boiler, storage tank, constant return temperature control.	Solid fuel boiler, mixing circuit, constant supply temperature control.	Heat exchanger, constant supply temperature control.

Item	Code	Description
	1ACC3010-040	Compact constant temperature controller SELTRON ACC30, with sensor (1xTF/Pt)
	1ACC4011-040	Compact constant temperature controller SELTRON ACC40, with sensors (2×TF/Pt)

Accessories

	Code	Description
	1ASCAVMSA000+NN0	Seltron, Acaso, Brv, Esbe, Hora, Imit, Imp, Ivar, Paw, Somatherm, Wip (5Nm) (basic version for AVC05)
	1ASCAVMSB000+NN0	Seltron, Acaso, Brv, Esbe, Hora, Imit, Imp, Ivar, Paw, Somatherm, Wip (10Nm+) (basic version for AVC10 and AVC15)
	1ASCAVMSC000+NN0	Centra – type DR/ZR
	1ASCAVMSD000+NN0	Centra – type DRU
	1ASCAVMSE000+NN0	Landis & Gyr, Siemens – type VBI, VBF
	1ASCAVMSF000+NN0	Meibes, Wita
	1ASCAVMSG000+NN0	Esbe VRG
	1ASCAVMSH000+NN0	Firšt
	1ASCAVMSI000-NN0	Honeywell – type V5442.., type V5433..
	1ASCAVMSJ000-NN0	Paw K32, K33, K34
	1ASCAVMSK000+NN0	Danfoss HRB3
	1ASCAVMSM000-NN0	Ball valve ISO5211, F03, L (9 mm)
	1ASCAVMSN000-NN0	Ball valve ISO5211, F03, L (11 mm)
	1ASCAVMSO000-NN0	Ball valve Belimo R2..xx-S.., F04, L (10 mm)

	Code	Description
	1TFPTC1MP-000	Immersion temperature sensor SELTRON TF/Pt, 1 m cord, with a 3.5 mm connector
	1TFPTC3MP-000	Immersion temperature sensor SELTRON TF/Pt, 3 m cord, with a 3.5 mm connector

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