SELTRON
SMART HEATING

Compact weather compensated controller
CMP25-2

Presentation

CMP25-2 is a compact weather compensated controller, intended for controlling one mixing heating circuit. It is installed into the actuator housing. It is equipped with a large graphic LCD touch screen for the setup and operation monitoring.

Typical application
- CMP is used in demanding room heating and cooling systems as an extension controller.
- Several controllers may be interconnected into a complex system with a BUS connection.
- For controlling simpler heating systems with one mixing circuit system.

Features
- 2 preset hydraulic schemes.
- Direct installation onto more than 20 different mixing valves.
- Possibility of connecting 1 room unit.
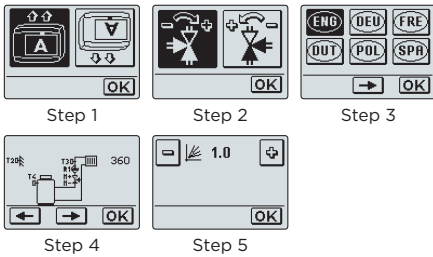- Remote control with the help of the SeltronHome system.

Front side description

1 – Display protection cover.
2 – Graphic display with touch screen.
3 – Esc key.

Typical application	CMP25-2
CMP is used in demanding room heating and cooling systems as an extension controller. Several controllers may be interconnected into a complex system with a BUS connection.	●
For controlling simpler heating systems with one mixing circuit	●
Technical characteristics	
No. of preset hydraulic schemes	2
No. of room units	1
No. of mechanical relays	1
No. of temperature sensor inputs	4
Possibility to make an interconnection between several CMP controllers and also other Seltron controllers with a BUS connection	●
System control	
Heating system with radiators	●
Floor heating system	●
Convector heating system	●
Wall and ceiling heating systems	●
Heating circuits control	
Mixing heating circuit	●
User functions	
Room heating or cooling according to the time programme	●
Automatic winter/summer mode switchover	●
PARTY function – activation of the comfort operation mode	●
ECO function – activation of the economy operation mode	●
HOLIDAY function – activation of the operation mode during the holiday season	●
BOOST function for intense room heating	●
Function for screed drying	●
Heating system protection	
Storage tank overheating protection	●
Boiler overheating protection	●
Periodic starting up of pumps and mixing valves during a period of inactivity	●
Limiting the maximum supply temperature for floor heating	●
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	
With a separate dedicated cable, the controller can be connected to a computer	●
Connectivity to the SeltronHome platform providing remote control using a smartphone or tablet	●
Setup and installation	
Wizard for an easy and quick device start-up	●
14-language user interface: EN, DE, FR, NL, PL, ES, SL, IT, CS, LT, GR, HU, HR, RU	●
Setting up the operation by selecting the hydraulic scheme	●
"Help" button for quick help with the setup	●
Graphically adjustable time programmes	●
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	●
Simple installation and connection	●

Outlined functions

Step 1 | **Step 2** | **Step 3**

360

Step 4 | **Step 5**

Start-up wizard

The CMP controller is equipped with a start-up wizard, which takes you through the initial setup of the controller in 5 steps.

Step 1: display orientation.

Step 2: selection of opening direction of the mixing valve.

Step 3: language selection.

Step 4: hydraulic scheme selection.
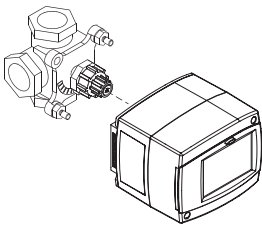
Step 5: heating curve slope selection.

Signalisation of operation

🟢 Green light informs about the closure of mixing valve.

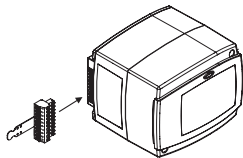🔴 Red light informs about the opening of mixing valve.

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.
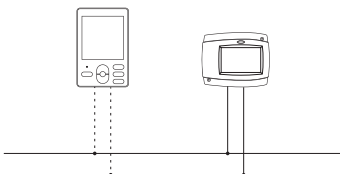
Simple connection of sensors with a connector system

The controller features 10-pin connector for a simple connection of sensors, room units and the expansion of the system to several heating circuits.
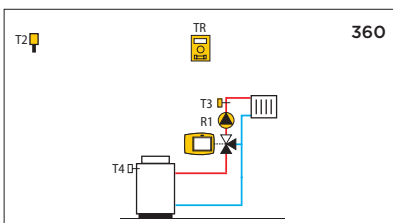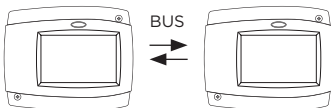
Possibility to connect a room unit

The room unit features measurements of room temperature, setting of daytime and nighttime temperature, and selection of the operation mode. One RCD room unit can be connected to the CMP controller.

BUS connection of multiple controllers

A random number of CMP controllers can be interconnected with the BUS connection. The master controller controls heat sources and heating circuits, meanwhile the slave controllers only control heating circuits. The outdoor sensor and the boiler temperature sensor are connected to the master controller.
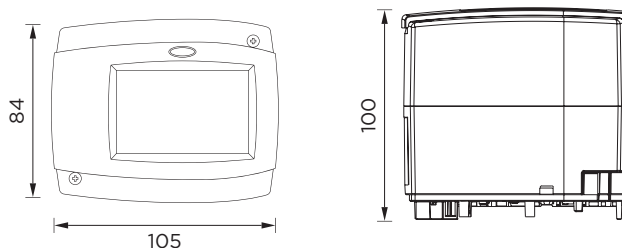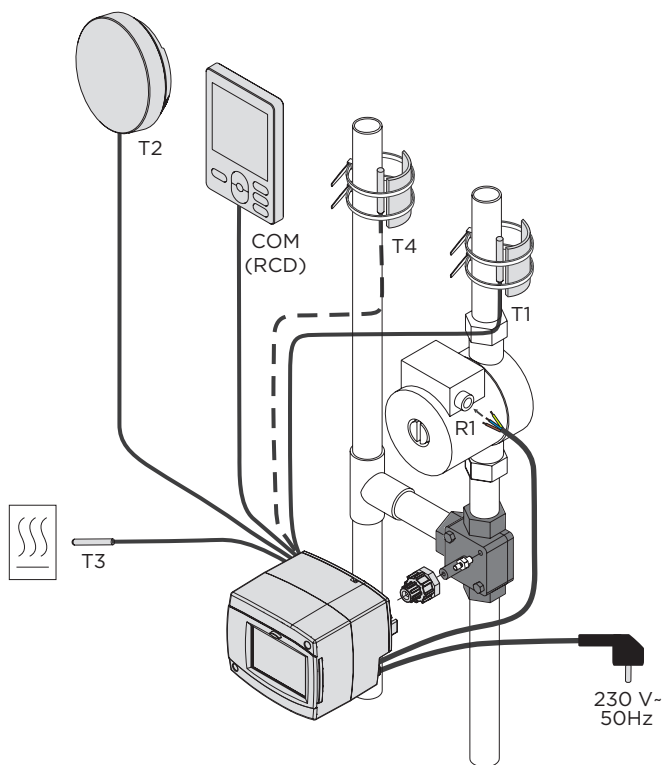
Typical hydraulic connection

Independent system, mixing circuit.

Example: hydraulic connection 360.

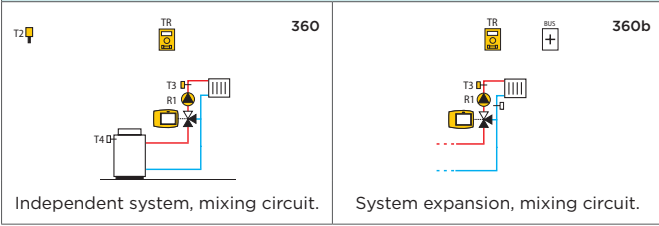| Technical specifications	CMP25-2
Backlit graphic touch screen	●
Weekly program timer	●
Torque	6 Nm
Connection voltage	230 V~, 50 Hz +/-10 %
Own consumption	4 W
Energy consumption in the standby mode	Max. 0.5 W
Pump output	230 V~/4(2) A
No. of inputs	4 pcs temperature sensor (Pt 1000)
Clock power supply	Battery CR2032 (Li-Mn) 3 V
Clock accuracy	+/-1 s (24 h) at 20°C
Degree of protection	IP42 according to EN 60529
Safety class	I according to EN 60730-1
Operation mode	1B according to EN 60730-1
Type of temperature sensors	Pt1000 or KTY10
Operation mode	3-point PID
Housing material	PC – thermoplastic
Operating temperature	0÷40 °C
Storage temperature	-20÷65 °C
Product weight	817 g
No. of pieces in the packaging unit	12 pcs
Dimensions	

| Electrical connection | |

Hydraulic schemes for CMP25-2

360 Independent system, mixing circuit.	**360b** System expansion, mixing circuit.

Item	Order code	Description
	2CMP2510150-010	Compact controller SELTRON CMP25-2, with sensors (1xAF/Pt, 1xVF/Pt, 1xTF/Pt)

Accessories

Item	Order code	Description
	1FODPT-NN0	Outdoor temperature sensor SELTRON AFD/Pt
	1TFPT-000	Immersion temperature sensor SELTRON TF/Pt
	1VFPT-000	Surface temperature sensor SELTRON VF/Pt
	1RCD2W-050	Digital room unit SELTRON RCD2, white
	1GWD2-040	Communication module SELTRON GWD2

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