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March
2019

SELTRON
SMART HEATING

CMP
Catalogue



Compact heating controller
CMP25-2

Weather-controlled CMP controllers control one mixing heating circuit. For settings and data display, they have integrated a large graphic LCD display with touch screen.

Compact heating controller CMP



Presentation

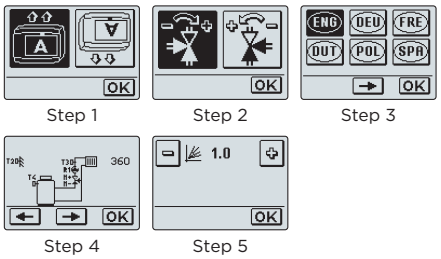
CMP25-2 is a compact weather-compensated controller, intended for controlling one mixing heating circuit. It is installed into the actuator housing. It is equipped with a large graphic LCD touch screen for settings and operation monitoring.

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.

Capacities

- 2 preset hydraulic circuit diagrams.
- Direct mounting on over 20 different mixing valves.
- Adjustable return temperature.
- Possibility of connecting one room unit.



Step 1 Step 2 Step 3

Step 4 Step 5

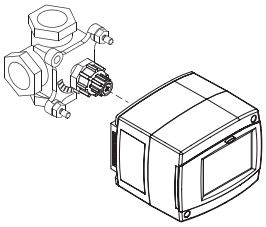
Start-up wizard

The CMP controller is equipped with a start-up wizard, which takes you through the initial settings 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 circuit diagram selection.
Step 5: language selection.



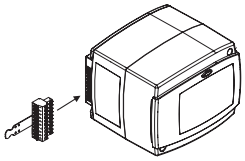
Signalisation of operation

Green light informs about the closure of mixing valve.
Red light informs about the *** of the mixing valve.



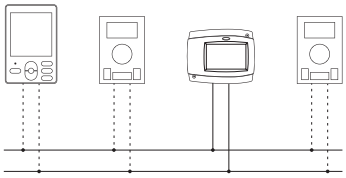
Direct mounting to more than 20 mixing valves

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



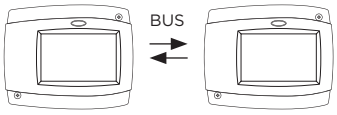
Simple connection of sensors through a connecting system

A 10-pole connector for a simple connection of sensors, room units and the expansion of the system to several heating circuits.



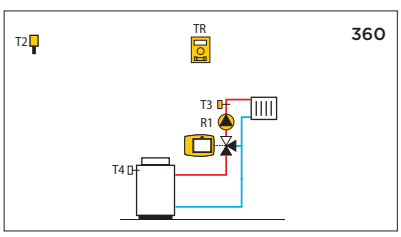
Possibility of connection of a room unit

The room unit allows measurements of room temperature, setting of day-time and night-time temperature, and selection of operation mode. The CMP controllers allows the connection of max. two DD2+ room units or one RCD room unit.



BUS connection of multiple controllers

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

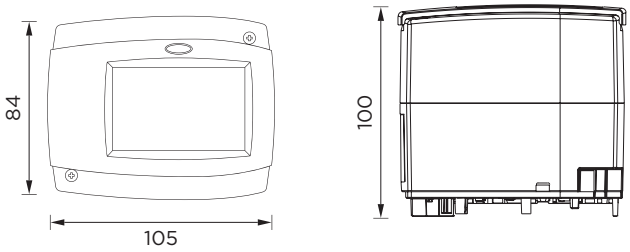
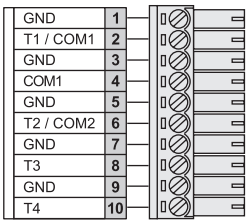


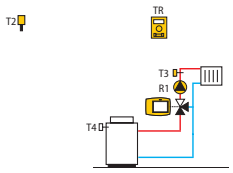
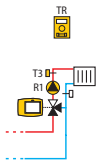
Typical hydraulic connection

Regulating mixing heating circuit.

Example: hydraulic connection 360.

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 system	●
Technical characteristics	
No. of preset hydraulic circuit diagrams	2
No. of room units	1
No. of mechanical relays	1
No. of solid state relays	2
No. of temperature sensor inputs	4
Possibility to make an interconnection between several CMP controllers and also other Seltron controllers with a BUS connection	●
Regulation of heating systems	
Heating system with radiators	●
Floor heating system	●
Convector heating system	●
Wall and ceiling heating systems	●
Regulation of heating circuits	
Mixing heating circuit	●
User functions	
Space heating or cooling according to the time program	●
Automatic winter/summer mode switching	●
PARTY function – a simple prolonging of comfort heating	●
ECO function – activation of the economy operation mode	●
HOLIDAY function – activation of the operation mode during the holiday season	●
BOOST function for space heating	●
Function for floor foundation drying	●
Heating system protection	
Supply device protection when overheating	●
Boiler protection against overheating	●
Periodic starting up of pumps and mixing valves during a period of inactivity	●
Limiting the maximum inflow temperature for floor heating	●
Data display	
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	●
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	●
14-language user interface Languages: EN, DE, FR, NL, PL, ES, SL, IT, CS, LT, GR, HU, HR, RU	●
Setting up the operation by selecting the hydraulic circuit diagram	●
“Help” button for quick help with settings	●
Graphically adjustable time programs	●
Logging and display of changes made to settings	●
Option for retrieval of basic settings in the event of data loss or unwanted changes	●
Simple installation and connection	●

Technical specifications	CMP25-2
Illuminated graphic display with touch screen	•
Weekly program clock	•
Torque	6Nm
Mains voltage	230V ~, 50Hz +/-10%
Own consumption	4VA
Energy consumption in stand-by	Max. 0.5W
Pump output (R1)	230V ~,/4(2)A
No. of inputs	4 pcs temperature sensor (Pt 1000)
Hour power supply	Battery CR2032 (Li-Mn) 3V
Clock accuracy	+/- 1s (24h) at 20°C
Protection grade	IP42 according to EN 60529
Protection 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°C up to +65°C
Weight	827g
No. of pieces in the packaging unit	12 pcs
Dimensions (W×H×D): 105×84×100mm	
Electrical connection	

Hydraulic circuit diagrams for CMP25-2	
360  Mixing circuit.	360b  System expansion, mixing circuit.

Item	Code for ordering	Description
	1CMP2510130-SL0	Compact heating controller SELTRON CMP25-2 with VF/Pt sensor
Accessories		
	1TFPT-000	Submersible SELTRON TF/Pt temperature sensor
	1VFPT-000	Contact temperature sensor SELTRON VF/Pt
	1RCD2W-050	Digital room unit SELTRON RCD2, white
	1GWD2-040	Communication module SELTRON GWD2

Simplicity solutions

SELTRONHOME

WDC controllers can be connected into the SeltronHome environment for comprehensive remote control and operation 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 3 or 4 steps through the first commissioning; all other parameters are preset.

SYSTEM SIMULATION

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

INTERACTIVE HELP

HELP

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