



Set Point Controller

SM WR FR Constant- or Setpoint – Temperature Controller

Description

The SM WR FR is a constant or setpoint temperature controller for heating or cooling systems. Its area of application is the return high maintenance, the regulation of surface heating or where constant temperatures are needed. It is equipped with a colour display, which is setting the base temperatures during operation. The indication of the display always adapts the installation position of the fixed-value controller.

Under the knob for manual operation there are 4 control buttons for adjustment of the constant or fixed temperature controller. When activating the switch for manual operation, the drive of the temperature controller is "OFF" because of energy saving reasons. The drive is equipped with a special assembly flange. By pressing the assembly / disassembly button a simple tool-free assembly / disassembly of the fixed-value controller on the mixer or venture is possible.

The SM W FR is immediately ready for use because the connection cable such as the mains and temperature sensor are pre-installed. The controller begins to run with a startup assistant.

After selecting the parameters

- Application (heating or cooling)
 - Hydraulic system (return or flow control)
 - opening direction (leading left or right)
- the operating parameters can be set.

The control is designed to withstand prolonged blockage without damage.



Technical Equipment

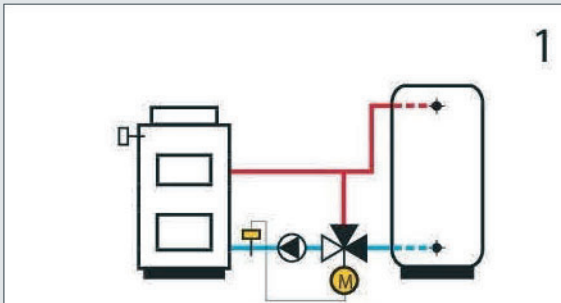
- Easy installation and > settings
- Temperature setting $0 \div 90 \text{ } ^\circ \text{C}$
- Any selectable temperature range
- Selection of hydraulic systems
- Selection and adjustment of the direction of rotation
- Digital display for temperatures
- Setting of heating or cooling operation
- Signalling of the direction of rotation
- Signalling on sensor break
- PID control of mixers and valves
- protection against frost and overheating
- non-locking



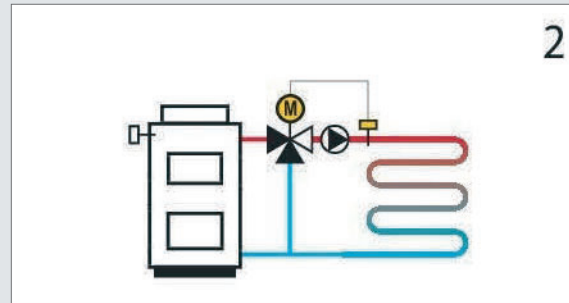
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Application

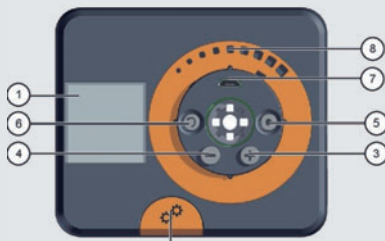


1. Return lift



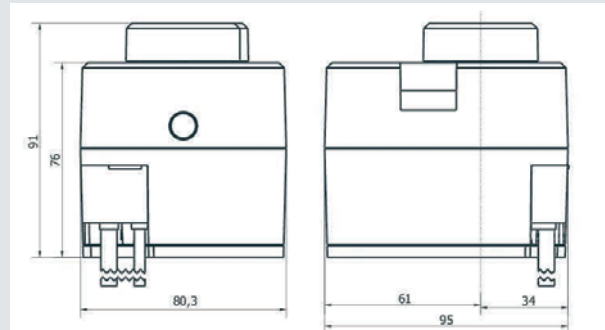
2. Control of panel heating, or where constant temperatures are needed.

Description



1. Graphical color display (240x240)
2. Coupling for manual operation
3. + button for "forward" or "value increase"
4. -key for "back" or "value reduction"
5. button to select "hydraulic system"
6. Button for selecting the direction of rotation
7. USB plug for software updates
8. scale ring

Dimensions



Technical Data

Characteristics	SM WR 05 FR	SM WR 10 FR
Torque:	5 Nm	10 Nm
Rotation angle:	90°	
Rotation Speed:	2 min / 90°	
Operating mode:	3-Point, PDI	
Supply voltage:	230 VAC, 50Hz	
Power consumption:	max. 5 W	
Power consumption during standby:	max. 0,5 W	
Temperature range:	0-50 °C	
Protection:	I nach EN 60730-1	
Protection class:	IP 42 acc. EN60529	
Dimensions (w x l x h):	95 x 80 x 92 mm	
Weight:	approx.900 g	
Colour / material:	grey / PC	