

# SDW 10

## WALL MODULE

### MOUNTING AND OPERATING INSTRUCTIONS

#### GENERAL

The SDW 10 Wall Module can be used for the remote control of a connected heating circuit. The SDW 10 features the following functions:

- **registering the current ambient temperature** (room sensor);
- **switching between operating modes** (automatic operation / heating / cooling);
- **adjusting the current temperature setpoint** (desired daytime setpoint / setback temperature setpoint).

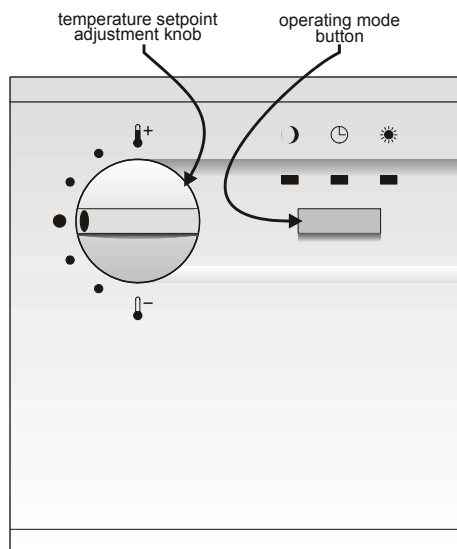


Fig. 1. SDW 10 (front view)

#### Registering the Current Ambient Temperature

The SDW 10's integrated room sensor registers the current ambient temperature. The resultant value is then employed for all room temperature-based functions and is also transmitted to the central system via a double-wire data bus cable.

#### Adjusting the Current Temperature Setpoint

Using the temperature setpoint adjustment knob (see Fig. 1), the daytime room temperature setpoint and/or setback temperature setpoint (defined at the central controller) can be adjusted by max.  $\pm 6$  K.

- Rotating the temperature setpoint adjustment knob clockwise (i.e. towards the  $\uparrow +$  symbol) raises the temperature setpoint.
- Rotating the temperature setpoint adjustment knob counterclockwise (i.e. towards the  $\downarrow -$  symbol) lowers the temperature setpoint.

#### Switching between Operating Modes

Using the operating mode button (see Fig. 1), the SDW 10 can be switched from one operating mode to another. This is done by pushing and holding down the operating mode button until the desired operating mode is reached (as indicated by the corresponding LED). It is possible to switch between the following three operating modes:

#### The Automatic Operating Mode (☾)

In this operating mode, the heating circuit is continuously controlled in accordance with the programmed time schedule (P1, P2, or P3) defined at the central controller, and the temperature setpoint adjustment knob's setting is taken into account.

#### The Continuous Heat Operating Mode (☀)

In this operating mode, the heating circuit is continuously controlled in accordance with the daytime room temperature setpoint defined at the central controller, and the temperature setpoint adjustment knob's setting is taken into account.

#### The Continuous Setback Operating Mode (☾)

In this operating mode, the heating circuit is continuously controlled in accordance with the setback temperature setpoint defined at the central controller, and the temperature setpoint adjustment knob's setting is taken into account.

**NOTE:** The setback temperature setpoint is defined for a specific heating circuit at the central controller via the parameter *SETBACK OPERATING MODE*. It determines the heating circuit's behavior when in the continuous setback operating mode. See also the central controller's Operating Instructions.

#### Temporary Operating Modes

Temporary operating modes such as PARTY, ABSENT, and HOLIDAY are indicated as follows:

- PARTY:** ☀ LED flashes ON and OFF continuously.
- ABSENT:** ☾ LED flashes ON and OFF continuously.
- HOLIDAY:** ☾ LED flashes ON and OFF continuously.

#### Bus Address

In order to restrict communication between the SDW 10 and the central controller to the given heating circuit, each SDW 10 must be configured to the dedicated heating circuit. In doing so, an appropriate bus address must be set. This is done using the rotary HEX code switch (Fig. 2) accessible after removing the front panel. The bus address is assigned in accordance with Table 1.

Table 1. Bus address assignment

SDW 10 bus address	central controller		heating circuit
	no.	bus address	
1	1	10	unmixed heating circuit
2	1	10	mixed heating circuit 1
3	1	10	mixed heating circuit 2
4	2	20	unmixed heating circuit
5	2	20	mixed heating circuit 1
6	2	20	mixed heating circuit 2
7	3	30	unmixed heating circuit
8	3	30	mixed heating circuit 1
9	3	30	mixed heating circuit 2
A	4	40	unmixed heating circuit
B	4	40	mixed heating circuit 1
C	4	40	mixed heating circuit 2
D	5	50	unmixed heating circuit
E	5	50	mixed heating circuit 1
F	5	50	mixed heating circuit 2
0	undefined		undefined

## IMPORTANT

The assignment of the same bus address to more than a single SDW 10 will result in interference during data transmission and thus controller malfunction.

Incorrect bus address assignment is indicated when powering up the SDW 10 as follows.

- ✱ LED: Flashes ON and OFF continuously.
- LED and ☉ LED: Are lit continuously.

## MOUNTING INSTRUCTIONS

### Mounting Location

The SDW 10 should be mounted at a location approx. 1.2 to 1.5 meters above floor level at a neutral site representative, with regards to temperature, for all rooms. The optimal location is a partition of a room with the coolest daytime temperature.

The SDW 10 must **not** be mounted

- at locations exposed to direct sunlight (seasonal variations should be taken into account)
- close to heat-producing appliances (e.g. televisions, refrigerators, radiators, etc.)
- on walls heated by under-plaster heating pipes or chimneys
- on outside walls
- in corners behind curtains or shelves (due to insufficient ventilation)

- close to doors of unheated rooms (due to the influence of low temperatures)
- on unsealed under-plaster wiring boxes

### Mounting

After removing the front panel, the SDW 10 can be mounted at the desired location using the accompanying screws and dowel pins. The cable for the bus connection must be led through the hole at the bottom of the housing.

### Electrical Connection

Electrical connection is effected at the two connection terminals. Recommended cable: J-Y (ST) Y 2x2x0.6 mm<sup>2</sup>.

## IMPORTANT

**Do not reverse the polarity of terminals A and B!**

After connecting the data bus cable and selecting the bus address (see Table 1), replace the front panel.

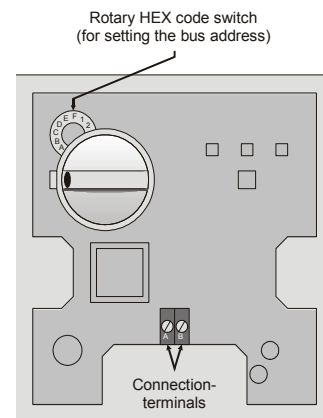


Fig. 2. SDW 10 (with front panel removed)

### Common Wiring Scheme

Fig. 3 depicts the connection of one or more SDW 10's with a central controller.

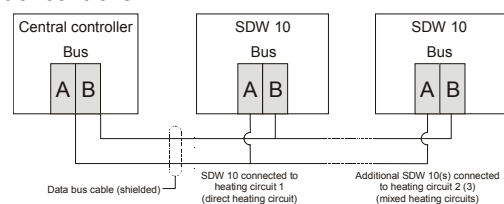


Fig. 3. Connecting to a central controller

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