4 in 1 Digital Thermostat Control
Models: VS10W and VS10B
Contents

Box contents
Introduction
Product Compliance
System options overview
Installation
Parameter Settings
Error Codes
User Guide
Installers notes
Warranty

Box Contents

Icons used in this manual:

Safety
Important info
Your benefit

For latest PDF installation guide please go to www.salus-controls.com

1 x Installer / User manual
Fixing screws
VS10W
VS10B
INTRODUCTION

Thank you for purchasing the SALUS 4 in 1 digital room thermostat VS10. To maximise the features of the unit, it should be used with the SALUS Wiring Centre KL10.

The unit can be configured to be a Programmable Thermostat (PRT), Group Control Thermostat, Group Thermostat or hot water timer. The units can communicate with each other (including VS05 Dial Thermostat) when connected to the wiring centre and using the communication connections. More information can be found on pages 9 and 10.

Product Compliance

This product is CE compliant and meets the following EC Directives Electro-Magnetic Compatibility directive 2004/108/EC
Low voltage Directive 2006/95/EC

Safety Information

Use in accordance with the regulations. The SALUS VS10 is to be used for room control of heating and hot water systems inside the house.

We hope you enjoy this product...

SALUS Wiring Centre KL10
These instructions are applicable to the SALUS model stated on the front cover of this manual only.

⚠️ **Warning**

This product must be fitted by a competent person, and installation must comply with the guidance, standards and regulations applicable to the city, country or state where the product is installed. Failure to comply with the requirements of the relevant guidance, standards and regulations could lead to injury, death or prosecution.

⚠️ **Sources of danger**

The thermostat must be disconnected from mains supply before removing the cover.

⚠️ **Emergency**

Switch off the voltage to the individual thermostat wiring centre or complete system.

230V AC

⚠️ **Warning**

Always isolate the AC Mains supply before installing or working on any components that require 230 VAC 50Hz supply.

**Installer parameter settings**

The SALUS VS10 is equipped with installer parameter section (see page 40) this must only be entered by the installer or competent person. Changing these parameters can have a serious effect on your heating system.

**For the installer**

Please enter any parameter changes in the installer notes section (pages 72 - 74)
1. Programmable Room Thermostat (PRT)

2. Group Control Thermostat

3. Group Thermostat

4. Timer

The unit can be configured to either one of the following:

- Wiring Centre
- UFH Manifold
- Radiator
- Boiler
- Hot Water
System Overview - Configuration Options

Programmable Room Thermostat (PRT)
When configured for PRT (see page 31) it mainly works by itself and allows the user to have separate Time and Temperature control of each zone on the wiring centre. Features like Vacation, Party frost mode have to set on each individual thermostat. The PRT can be configured for global Heat/Cool system changeover if your system supports this. This is achieved from a switched input from the wiring centre (see note 6 from the wiring center installation guide). Communication Connection (see page 13) is required to use heat/cool changeover function.

Group Control Thermostat
When configured for a group control thermostat (see page 33) this allows central control of up to 7 group thermostats see below, there can be a maximum of 2 groups per 8 zone wiring centre. Permanent temperature override, Holiday, Party, Frost modes, can be selected centrally from the Group Control Thermostat. Holiday will also be applied to a timer if applicable. Communication connections (see page 13) are required for grouping the group thermostats. Thermostats can be also globally changed from heating to cooling thermostats if your system supports this by using the switched input connection on the WC (see note 6 from the wiring center installation guide) along with the communications connections mentioned above.

Group Thermostat
When configured for Group thermostat (see page 36) and in group mode the group thermostat will follow the time schedule and any override modes of the group thermostat. The Group thermostat can have its own program temperatures, manual override and also be removed from the group temporarily or permanently. Communication connections required (see page 13).

Timer
When configured to timer (see pages 32 & 34) the unit will operate as a timer with no temp control. This can be used for example hot water control. The timer will also follow Holiday mode from the group control thermostat if applicable, communication connections required for this group function.
System Overview - Cables

- **Power and Switching Cable** – used to power thermostats and drive output.

- **Grouping and Communication cable**

While the thermostats can function as stand alone Programmable or Timer's, installing this optional inexpensive Communication Cable allows the thermostats to communicate with each other. This allows the thermostat to assume convenient remote control of groups of thermostats. Bringing central control of features such as Time control, Holiday & Party functions as well as frost control. The individual group members can leave or re-enter group control at the push of a button.

- Communication cable can be used when units are used as individual PRT's for heat/cool changeover. Please refer to page 13 and note 5 on the wiring centre installation guide.

- Cable size 1.5mm 3 core for L,N,SL and 0.5mm twin for the communication.
System Overview - Options

The systems below although not exhaustive show the main options. The maximum number of groups per KL10 wiring centre is two. The group selection communication cable must correspond to the group terminals on the KL10 WC. Please refer to note 5 on the KL10 installation guide.

Option 1 - Page 09
Option 1 - Unit is configured as individual PRT.

Option 2 - Page 10
Option 2 - Unit is configured as a Group Control Thermostat used to control a group(s) of Dial Stat(s)

Option 3 - Page 10
Option 3 - Unit is configured as a Group Control Thermostat used to control a group(s) of Digital Stat(s) configured as group thermostats.

All Digital Variants can be configured from VS10. Groups must have a group control thermostat. 1 or 2 Groups can be used per wiring centre. HW Timer can be stand alone or part of a group. If using HW Timer as part of a group it must be in group 1.
# System Overview - Grouping and Communication

**Option 1 - Page 31**

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>PRT</th>
<th>USING COMMUNICATION CONNECTION - PRT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Room Control</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Individual Holiday Function</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Individual Party Function</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Individual Heating Program</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Individual Frost Function</td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td>Group Holiday including HW</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Group Party</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Group Heating Program</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Group Permanent Override</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Group Temporary Override</td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td>Heat/Cool changeover</td>
<td>✗</td>
<td>✔</td>
</tr>
</tbody>
</table>

**Note:** The communication connection is only used for heat/cool changeover when using units configured to PRT’s and using the relevant connection on the KL10 Wiring Centre. Please refer to note 6 on Wiring Centre installation guide.
# System Overview - Grouping and Communication

## Option 2 - Page 33  Option 3 - Page 35

<table>
<thead>
<tr>
<th>FUNCTION</th>
<th>PRT</th>
<th>USING COMMUNICATION CONNECTION - GROUP CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individual Room Control</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Individual Holiday Function</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Individual Party Function</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Individual Heating Program</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Individual Frost Function</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Group Holiday including HW</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Group Party</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Group Heating Program</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Group Permanent Override</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Group Temporary Override</td>
<td>✗</td>
<td>✓</td>
</tr>
<tr>
<td>Heat/Cool changeover</td>
<td>✗</td>
<td>✓</td>
</tr>
</tbody>
</table>

Note HW timer will only use HOLIDAY function when the communication connection is used. Also the HW timer must be connected to GROUP 1 communication terminals on wiring centre. See note 8 on Wiring Centre installation guide.
System Overview - Hot Water Option

When the unit is configured as a hot water timer (see page 34) there are two methods of connecting the cylinder thermostat.

Unit configured to Hot Water Timer.

Cylinder thermostat options

1. Connected direct to WC (Default)
2. Connected direct to VS10 (requires additional parameter change. See page 40)
System Overview - Hot Water Option

For convenience there is a unique built in option allowing the cylinder thermostat to be connected to either the HW Timer or Wiring Centre.

1. Connected direct to WC (Default)

2. Connected direct to VS10 (requires additional parameter change see page 40)

Please refer to note 1 on Wiring Centre guide and page 18 for more information.
Installation – Terminal Connections

Understanding your terminal connections

Rear of unit

Communication Terms 12VDC
Two wire twisted pair can be used for Grouping Functions between PRT, Group Control Thermostat, Group Thermostat and HW Timer.

Power Terminals 230 Vac
Used for supplying power to the unit and switched output.

Sensor Terminals
Can be used for external AIR, Floor sensor when configured as thermostat. Can also be used for Cylinder thermostat when configured for HW.
Installation – Thermostat Mounting

1. Carefully remove the front housing.

2. [Image of thermostat being held by hands]

3. [Image of thermostat being placed into housing]

60mm
Installation – Thermostat Mounting

Mounting position and installation
To ensure trouble free operation and efficient control, the unit is best positioned in a draft free area and at 130cm from the floor. Do not position the thermostat near any heat source, behind curtains, direct sunlight or an area of high humidity.

Not to be positioned on an exterior wall.
Installation – Thermostat Connections

While the thermostats can function as PRT or Timer’s, installing this optional inexpensive Communication Cable allows the thermostats to communicate with each other. This allows the thermostat to assume convenient remote control of groups of thermostats. Bringing central control of features such as Time control, Holiday & Party functions as well as frost control. The individual group members can leave or re-enter group control at the push of a button.

For more detail refer to note 5 on the wiring centre installation guide.
Installation – Thermostat External Sensor

Note: If you are using an external sensor, the unit has to be configured for External Air Sensor or Floor Protection Sensor please see device parameter setting page 40.
Installation – Hot Water Timer wiring

Power Connections 230 Vac

Optional Communication Connections 12 VDC

If hot water is part of a group then the communication connection must be connected to group 1.
Installation – Hot Water Timer Cylinder Thermostat

Note: The unit can be configured for Cylinder thermostat or connected to the Hot Water Timer. Please see device parameters page 40. For additional Wiring Centre information refer to note 1 on Wiring Centre guide.
Installation – Thermostat Mounting

Check that the wiring is completed for:

1. Power Terminals
2. Sensor Terminals (if applicable)
3. Communication connections (optional but recommended)

You are ready to secure the rear housing to the wall box.

Please use the screws provided.

Ensure the orientation arrow is pointing upwards.
Installation – Thermostat Mounting

1. Align the front housing at the bottom edge.
2. Lightly press until you hear a positive click.

Fit the front housing to the rear housing

Ensure the pin connections are aligned
## Installation – LCD Graphics

<table>
<thead>
<tr>
<th>ICON</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>☐</td>
<td><strong>BOX</strong> means to select the mode e.g. ☐ means the current setpoint is Hi temp, ☐ means the Hi temp is not selected.</td>
</tr>
<tr>
<td>☀</td>
<td><strong>Sunny:</strong> Hi comfortable temperature.</td>
</tr>
<tr>
<td>☁</td>
<td><strong>Cloudy:</strong> Middle comfortable temperature.</td>
</tr>
<tr>
<td>☾</td>
<td><strong>Moon:</strong> Low comfortable temperature.</td>
</tr>
<tr>
<td>🌆</td>
<td><strong>Programmable thermostat Program mode indicator:</strong> Indicates program is running, Auto On or Auto Off. For group thermostat this indicates that it is a member of a group.</td>
</tr>
<tr>
<td>🥂</td>
<td><strong>Party indicator:</strong> When Party mode is active.</td>
</tr>
<tr>
<td>🎉</td>
<td><strong>Vacation indicator:</strong> When Vacation mode is active</td>
</tr>
<tr>
<td>☠</td>
<td><strong>Frost protection indicator:</strong> Frost protection is active, not available in cooling mode (if applicable)</td>
</tr>
</tbody>
</table>
### Installation – LCD Graphics

<table>
<thead>
<tr>
<th>ICON</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td><a href="#">Heat indicator:</a></td>
<td>Indicates heat is required.</td>
</tr>
<tr>
<td><img src="#" alt="Cool mode indicator:" /></td>
<td>Indicates cooling is required (if applicable)</td>
</tr>
<tr>
<td><img src="#" alt="Temperature indicator:" /></td>
<td>Display the room temperature. Display the set-temp. Also used to show the other information.</td>
</tr>
<tr>
<td><img src="#" alt="Temporary manual override indicator:" /></td>
<td>If the set temperature is changed when in program mode, the hand will appear until the next program start time.</td>
</tr>
<tr>
<td><img src="#" alt="Programs number indicator:" /></td>
<td>In AUTO program mode or Temporary override is running, it means the current program running.</td>
</tr>
<tr>
<td><img src="#" alt="Day indication:" /></td>
<td>1 = Monday</td>
</tr>
</tbody>
</table>
### Installation – LCD Graphics

<table>
<thead>
<tr>
<th>ICON</th>
<th>FUNCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>🚏</td>
<td><strong>Hot Water (HW) indicator:</strong> Unit has been configured for HW Timer.</td>
</tr>
<tr>
<td>🚏</td>
<td><strong>Hot Water (HW) indicator:</strong> Indicates that there is Hot Water demand.</td>
</tr>
<tr>
<td>🔄</td>
<td><strong>HW Program mode indicator:</strong> Indicates program is running.</td>
</tr>
<tr>
<td>🔁</td>
<td><strong>HW Mode indicator:</strong> Mode for 1 period of HW a day, from Program 1 ON to Program 3 OFF.</td>
</tr>
<tr>
<td>✅</td>
<td><strong>HW Mode indicator:</strong> Indicates continuously On.</td>
</tr>
<tr>
<td>🔴</td>
<td><strong>HW Mode indicator:</strong> Indicates continuously Off.</td>
</tr>
<tr>
<td>🔄️</td>
<td><strong>HW Mode indicator:</strong> Indicates Boost +1hr override.</td>
</tr>
</tbody>
</table>
## Installation – LCD Graphics

<table>
<thead>
<tr>
<th>ICON</th>
<th>FUNCTION</th>
</tr>
</thead>
</table>
| ![Icon](image1) | **Floor sensor probe indicator**  
Show only when Air + Floor sensor is connected. |
| ![Icon](image2) | **Low battery indicator:**  
Batteries need to be replaced. |
| ![Icon](image3) | **Setting indicator:**  
Indicate the unit is in setting mode when program setting.  
Indicate the manual mode. |
| ![Icon](image4) | **Keylock indicator:**  
Shows that keys are inactive. |
### Installation – User Interface

<table>
<thead>
<tr>
<th>KEY</th>
<th>FUNCTION</th>
</tr>
</thead>
</table>
| ![arrow_up] ![arrow_down] OR ![arrow_left] ![arrow_right] | 1. Increase or decrease setpoint temperature.  
2. Increase or decrease Day, Clock, Timer, Party, Holiday and Boost.  
3. Select installer parameter value. |
2. Long press to return to home display without saving.  
3. Short press to return to the previous screen when it is in user/installer setting mode. |
| ![arrow_up] ![plus] ![arrow_up] LONG PRESS | 1. OK key: Short press to confirm selection.  
2. Long press to save and exit.  
3. Long press to enter the user settings. |
| ![check] ![plus] ![arrow_left] ![arrow_right] LONG PRESS | Lock/Unlock |
| ![check] ![plus] ![arrow_left] ![arrow_right] LONG PRESS | Enter Installer parameter settings |
| ![check] ![plus] ![arrow_left] ![arrow_right] LONG PRESS | Test mode |
Installation – First Power Up
You are now ready to configure the unit using the system parameter table below.

<table>
<thead>
<tr>
<th>SX</th>
<th>FUNCTION</th>
<th>SYSTEM SETTING</th>
<th>DEFINITION</th>
<th>DEFAULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>S01</td>
<td>System Unit Type</td>
<td>0</td>
<td>Programmable Stat (PRT)</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Digital Thermostat</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>HW Timer</td>
<td></td>
</tr>
<tr>
<td>S03</td>
<td>System Communication</td>
<td>0**</td>
<td>PRT only with communication*</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1*</td>
<td>Group control thermostat and group thermostat communication</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>No Communication / Grouping required</td>
<td></td>
</tr>
</tbody>
</table>

*S03 setting 1 is used for Control Group options 2 & 3 see pages 33-36, communication connection must be used, global heat/cool changeover is also included if applicable to your system.

**S03 setting 0 is used for option 1 (see page 31) when heat/cool changeover is required for individual PRT's, communication connections must be used for this function. S03 setting 0 is only available if setting 0 has been selected for S01. If no heat/cool changeover is required when using PRT's only then select setting 2 for S03.
Installation - Options

Option 1 - Page 31
Option 1 - Unit is configured as individual PRT.

Option 2 - Page 33
Option 2 - Unit is configured as a Group Control Thermostat used to control a group(s) of Dial Stat(s)

Option 3 - Page 35
Option 3 - Unit is configured as a Group Control Thermostat used to control a group(s) of Digital Stat(s) configured as group thermostats.

An additional Hot Water Timer can be used with any of the above options.
Installation - Graphics Key

- Press once
- Press x amount of times
- Hold for five seconds
- Flashing

Short press to back up
Short press to save and long press to save and exit
Option 1 - Individual Programmable thermostat setup

PRT with no communication*

*Select S03 setting 0 if communication is required for global heat/cool changeover. Your system must support this and the communication connection must be used. See page 13.
Option 1 - Hot Water Timer (Optional) Configuration

Hot water with no communication.

Long press to exit to home screen or continue to change device settings. Refer to page 40.
Option 2 - Thermostat Configuration

Group
Control
Thermostat

Long press to exit to home screen or continue to change device settings. Refer to page 40.

Communication connection required for this setting.
Option 2 - Hot Water Timer (Optional) Configuration

Communication connection required for this setting.

Long press to exit to home screen or continue to change device settings. Refer to page 40.

Use ↑ to change to 2.
Option 3 - Thermostat Configuration

Group Control Thermostat

- Long press to exit to home screen or continue to change device settings. Refer to page 40.
- Communication connection required for this setting.
Option 3 - Thermostat Configuration

Group

Thermostat

Use \( \leftarrow \) to change to 1.

Communication connection required for this setting.

Long press to exit to home screen or continue to change device settings. Refer to page 40.
Option 3 - Hot Water Timer (Optional) Configuration

Communication connection required for this setting.

Long press to exit to home screen or continue to change device settings. Refer to page 40.
Installation - System Parameters

If you have made an error or need to change your system parameters please follow steps below. This should only be done by your installer.

Press all three buttons simultaneously.
Unit will follow power up sequence on page 27.

You are now ready to enter or change your system parameters. Refer to page 28.
Installation - Device parameters

Press all three buttons simultaneously

Device parameters will follow system parameters on first power up. If you need to change device parameters follow the steps below.

Please note, your system parameters will be shown first but cannot be edited in this section. To change the system parameters please refer to the previous two pages.
### Installation - Device Parameters

<table>
<thead>
<tr>
<th>DX</th>
<th>FUNCTION</th>
<th>SYSTEM SETTING</th>
<th>DEFINITION</th>
<th>DEFAULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>D01</td>
<td>Heating Control</td>
<td>0</td>
<td>Pulse Width Modulation</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>On-Off 0.5 Deg C +/- 0.25 Deg C</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>On-Off 1.0 Deg C +/- 0.5 Deg C</td>
<td></td>
</tr>
<tr>
<td>D02</td>
<td>Room Temperature Offset</td>
<td>-3.0 to 3.0 Deg C</td>
<td>Temperature Offset from Measured Temperature to Compensate for any error</td>
<td>0 Deg C</td>
</tr>
<tr>
<td>D03</td>
<td>Sensor probe or Cylinder thermostat connection</td>
<td>0</td>
<td>Sensor/Cyl stat not Connected</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Sensor/Cyl stat Connected</td>
<td></td>
</tr>
<tr>
<td>D04</td>
<td>Sensor probe used as air sensor or floor sensor</td>
<td>0</td>
<td>D03 must be set to 1 then external sensor be used as Air sensor. There will be no internal temp measurement</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>D03 must be set to 1 then external sensor used for floor protection. Internal temp is measured by stat</td>
<td></td>
</tr>
<tr>
<td>D05</td>
<td>Cooling Control</td>
<td>1</td>
<td>On-Off 0.5 Deg C +/- 0.25 Deg C</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>On-Off 1.0 Deg C +/- 0.5 Deg C</td>
<td></td>
</tr>
<tr>
<td>D06</td>
<td>Actuator type</td>
<td>0</td>
<td>NO Normally Open</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>NC Normally Closed</td>
<td></td>
</tr>
<tr>
<td>D07</td>
<td>Valve protection</td>
<td>0</td>
<td>Disable</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>Enable</td>
<td></td>
</tr>
</tbody>
</table>
### Installation - Device Parameters continued

<table>
<thead>
<tr>
<th>DX</th>
<th>FUNCTION</th>
<th>SYSTEM SETTING</th>
<th>DEFINITION</th>
<th>DEFAULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>D08</td>
<td>Frost Set point Temperature</td>
<td>5-17 Deg C</td>
<td>Required Temperature for frost protection and holiday mode</td>
<td>5 Deg</td>
</tr>
<tr>
<td>D09</td>
<td>Hour Format</td>
<td>0</td>
<td>12</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>D10</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>D11</td>
<td>Daylight Saving Time (DST)</td>
<td>0</td>
<td>OFF</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1</td>
<td>ON</td>
<td></td>
</tr>
<tr>
<td>D12</td>
<td>Heating Set point Limit</td>
<td>5-35 Deg C</td>
<td>Maximum temp that can be set for heating</td>
<td>35 Deg C</td>
</tr>
<tr>
<td>D13</td>
<td>Cooling Set point Limit</td>
<td>5-40 Deg C</td>
<td>Maximum temp that can be set for Cooling</td>
<td>5 Deg C</td>
</tr>
<tr>
<td>D14</td>
<td>Floor sensor High Limit Temperature</td>
<td>6-45 Deg C</td>
<td>Output relay will be switched off when temp is reached for floor protection</td>
<td>27 Deg C</td>
</tr>
<tr>
<td>D15</td>
<td>Floor sensor Low Limit Temperature</td>
<td>6-45 Deg C</td>
<td>Output relay will be switched on when temp is reached for floor protection</td>
<td>10 Deg C</td>
</tr>
<tr>
<td>D16</td>
<td>Floor sensor Limit for cooling</td>
<td>6-45 Deg C</td>
<td>Output relay will be switched off when temp is reached for floor protection</td>
<td>6 Deg C</td>
</tr>
</tbody>
</table>
## Installation - Error Codes

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Prog</th>
<th>Non-Prog</th>
<th>HW</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Comm Connection link failure</td>
<td>Comm Connection link failure</td>
<td>Comm Connection link failure</td>
</tr>
<tr>
<td>02</td>
<td>Comm Connection link failure</td>
<td>Comm Connection link failure</td>
<td>Comm Connection link failure</td>
</tr>
<tr>
<td>03</td>
<td>Floor sensor open</td>
<td>Floor sensor open</td>
<td>-</td>
</tr>
<tr>
<td>04</td>
<td>Floor sensor short</td>
<td>Floor sensor short</td>
<td>-</td>
</tr>
</tbody>
</table>

If there is more than 1 error, then on Error page, press UP to show other error codes.

E.g. Err 03 05 ===> 3 errors Error code 05 (1st one)
Press Up to show Err 03 08 ===> 3 errors Error code 08 (2nd one)
Press Up again to show Err 03 09 ===> 3 errors Error code 09 (3rd one)
Press Up again to show Err 03 05 again......
Press OK to exit Error page back to Home display.
## Installation - Technical Detail

<table>
<thead>
<tr>
<th>Model</th>
<th>VS10W/VS10B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Electronic programmable room thermostat, digital room thermostat and hot water timer designed for 230V AC applications</td>
</tr>
<tr>
<td>Programming Modes</td>
<td>User selectable for 5/2, ALL and Individual day options</td>
</tr>
<tr>
<td>Program Number</td>
<td>1-6 Selectable</td>
</tr>
<tr>
<td>Modes</td>
<td>Party, Vacation, Program and Frost</td>
</tr>
<tr>
<td>Override</td>
<td>Permanent and temporary</td>
</tr>
<tr>
<td>Frost Protection</td>
<td>5ºC Adjustable</td>
</tr>
<tr>
<td>Power Source</td>
<td>230V AC 50Hz</td>
</tr>
<tr>
<td>Rating</td>
<td>3 Amp</td>
</tr>
<tr>
<td>Communication Bus</td>
<td>12V DC</td>
</tr>
<tr>
<td>Temperature Scale</td>
<td>5 to 35ºC, tolerance 0.5ºC</td>
</tr>
<tr>
<td>Heat/Cool</td>
<td>Global changeover using communication bus and external input to the wiring centre</td>
</tr>
<tr>
<td>Sensor</td>
<td>Air or floor protection. Cylinder thermostat when configured for hot water timer.</td>
</tr>
<tr>
<td>Device Parameters</td>
<td>See page 40 for full list of functions</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 to 50ºC</td>
</tr>
<tr>
<td>Storage Temperature</td>
<td>-20 to 60ºC</td>
</tr>
</tbody>
</table>
User Guide - Setting time and date

PRT and Group Control Thermostat

1. Press the button to select the time mode.
2. Press the button to select the hour.
3. Press the button to select the minute.
4. Adjust the time as needed.
5. Press the button to confirm and save the changes.
User Guide - Setting time and date

PRT and Group Control Thermostat

Use Left to select 12 hour and right to select 24 hour.

Adjust the time using the up or down arrow key.

Hour

Minutes
User Guide - Setting time and date

PRT and Group Control Thermostat

Adjust the year/month/day using the up or down arrow key.
Highest Temperature typically used for early morning and early evening. 
Typically 21 Deg C

Mid Temperature typically used for times of day when you are active around the home 
Typically 19 Deg C

Lower Temperature typically used for unoccupied or sleep times. Typically 17 Deg C for UFH or 15 Deg C for radiators

Frost Temperature typically used for periods of long absence or holidays. Typically 5 Deg

Your thermostat comes preset for the above temperatures. These can be adjusted please see page 53
User Guide - Understanding Temperature Levels Cooling

PRT, Group Control Thermostat and Group Thermostat

Cooling is only available if your system supports this and the relevant configurations and connections have been made to the unit.

Occupied Temperature. Typically 22°C

Unoccupied Temperature Typically 40°C
This avoids cooling being active when the property is unoccupied.

Evening Temperature Typically 24°C

Your thermostat comes preset for the above temperatures. These can be adjusted please see page 53.
User Guide - Default Heating Schedule

PRT and Group Control Thermostat

**Monday to Friday**

<table>
<thead>
<tr>
<th>Time</th>
<th>12:00</th>
<th>17:00</th>
<th>23:00</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>🔴</td>
<td>🔴</td>
<td>🔴</td>
</tr>
</tbody>
</table>

**Saturday to Sunday**

<table>
<thead>
<tr>
<th>Time</th>
<th>12:00</th>
<th>8.00</th>
<th>9.00</th>
<th>17.00</th>
<th>23.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>🔴</td>
<td>🔴</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>🔴</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*If using grouping, the schedule from the group control thermostat will be applied to group members.*
User Guide - Default Cooling Schedule

PRT and Group Control Thermostat

Monday to Friday

<table>
<thead>
<tr>
<th>Time</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.00</td>
<td>22</td>
</tr>
<tr>
<td>17.00</td>
<td>40</td>
</tr>
<tr>
<td>23.00</td>
<td>24</td>
</tr>
</tbody>
</table>

Saturday to Sunday

<table>
<thead>
<tr>
<th>Time</th>
<th>Setting</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.00</td>
<td>22</td>
</tr>
<tr>
<td>17.00</td>
<td>40</td>
</tr>
<tr>
<td>23.00</td>
<td>24</td>
</tr>
</tbody>
</table>

If using grouping, the schedule from the group control thermostat will be applied to group members.
User Guide - Graphics Key

- Press once
- Press x amount of times
- Hold for five seconds
- Flashing

Short press to back up
Short press to save and long press to save and exit
User Guide - Setting required temp levels

PRT, Group Control Thermostat and Group Thermostat

Setting the low temperature

By setting the low temperature the program schedule will use this as the low setting.

The temperature set are applicable to the individual thermostat.
User Guide - Setting required temp levels

PRT, Group Control Thermostat and Group Thermostat

By setting the low temperature the programs will use this as the low setting.

Repeat for Move back to once temperature levels have been chosen.

The temperature set are applicable to the individual thermostat.
User Guide – Setting the Temperature Schedule

Use right and left to select the day of the programs.

If using grouping, the schedule from the group control thermostat will be applied to group members.
User Guide – Setting the Temperature Schedule

Adjust the time using the up or down arrow key.

Use right and left to select the Hi/Mid or low temp.
User Guide – Setting the Temperature Schedule

Repeat through to program 4.
If you require a 5th or 6th program enter a time and select your temperature ☀️ ☀️

To remove a program out set the time to --:--.

When you set the ☀️ ☀️ ☀️ temperature the schedule will respond to those temperatures see page 53 on how to change ☀️ ☀️ ☀️

VS10W and VS10B Installer Manual
User Guide - Temporary Override

PRT, Group Control Thermostat and Group Thermostat

Use the up or down arrow key to view your program set temperature.

The temporary override is applicable to the thermostat being changed only.

Temporary override allows you to increase the temperature or decrease it to the desired setting until it reverts back on the next program time.

Use the up or down arrow key to adjust the temperature to the setting you desire.
User Guide - Temporary Override

PRT, Group Control Thermostat and Group Thermostat

Confirm the temporary set temperature.

To cancel temporary override press ← or → or See below.
User Guide - Permanent Override

PRT and Group Control Thermostat
Setting permanent low temperature

Permanent override in a control group thermostat will also affect the group thermostats unless they are removed from the group. See page 64.

To cancel permanent override select if required

To adjust your permanent override temperature, follow the steps on page 58.

Move from to

Use the up or down arrow key to view your set temperature. See page 58.

Repeat for if required
User Guide - Party Mode

The party mode is an option that enables temperature for a period of time you select up to 9hr 50min.

Use the right arrow to select the party mode.

Use the up arrow to select the hr/min.

Press tick to confirm and it will start to count down.

Party Mode set in a Control Group Thermostat will also affect group thermostats unless they are removed from the group. See page 64.
User Guide - Holiday Mode

Use the right arrow to select the holiday mode.

Use the up arrow to select how many days to be off for.

Press tick to confirm and it will start the holiday count down.

Holiday set in a Control Group Thermostat will also affect group thermostats unless they are removed from the group. See page 64.
Frost protection set in a Control Group Thermostat will also affect group thermostats unless they are removed from the group. See page 64.

Frost protection is not available in cooling. Moving the to this position in cooling will switch the thermostat to off.

Use the right arrow to select the frost mode.

Use the up arrow to select the frost protection temperature.

Press tick to confirm the temperature that has been set to.
When a group thermostat is in A and the group control thermostat is in or then the group thermostat will follow this mode. or will be displayed.

The group thermostat has now left the group and is in permanent. To adjust the set temperature, please refer to page 58.

The group thermostat is in permanent and it will follow the mode status of the group control thermostat.
The group thermostat has now left the group and is in permanent mode. To adjust the set temperature, please refer to page 58.

The group thermostat has now left the group and is in permanent mode. To adjust the set temperature, please refer to page 58.

The group thermostat has been returned to the group. It will follow the mode status of the group control thermostat.
Mode selection

When is selected, the hot water timer will follow the program schedule. See page 68.

Hot water will be on once per day.

Hot water will be continuously on.

Hot water will be continuously off.

Hot water will follow Holiday mode from the group control thermostat. will be displayed.
Your hot water timer comes preset with the times below. These can be adjusted. See next page.

Monday to Friday

<table>
<thead>
<tr>
<th>12.00</th>
<th>6.00</th>
<th>8.00</th>
<th>18.00</th>
<th>22.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>

Saturday and Sunday

<table>
<thead>
<tr>
<th>12.00</th>
<th>6.00</th>
<th>8.00</th>
<th>18.00</th>
<th>22.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON</td>
<td>ON</td>
<td>OFF</td>
<td>OFF</td>
<td>OFF</td>
</tr>
</tbody>
</table>
User Guide - Setting Hot Water Times
Repeat these steps for programs 2 and 3.
Repeat these steps for programs 2 3
Warranty

SALUS Controls warrants that this product will be free from any defect in materials or workmanship, and shall perform in accordance with its specification, for a period of five years from the date of installation. SALUS Controls sole liability for breach of this warranty will be (at its option) to repair or replace the defective product.

Customer Name: ............................................................................................................................

Customer Address: ..........................................................................................................................

............................................................................... Post Code: ........................................................

Tel No: ........................................................ Email: .........................................................................

Engineers Company: .......................................................................................................................

Tel No: ......................................................... Email: ........................................................................

Instalation Date: ..............................................................................................................................

Engineers Name: ............................................................................................................................

Engineers Signature: .......................................................................................................................