

SALUS[®]

CONTROLS

Model: EP110/EP210/EP310



Installer Manual-Quick Guide

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Introduction

A programmable controller is used to switch the heating system and/or the hot water in your home on and off as needed. It works by controlling the central heating and/or the hot water with programmed settings that take effect at different times of the day.

Go to www.salus-manuals.com for the full PDF version of the manual.



Product Compliance

EU Directives: 2014/30/EU, 2014/35/EU and 2011/65/EU. Please check www.saluslegal.com for the full information.



Safety Information

Use in accordance with the EU and national regulations.

For indoor use only.

Keep your device completely dry.

This product must be installed by a competent person and in accordance with all the EU and national regulations.

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

Difference between EP110/EP210/EP310

EP110 CH or HW	
EP210 CH and HW	
EP310 2x CH and 1x HW	

The EP line will offer you the possibility to customize your central heating system and hot water system as desired.

EP110 is recommended for users that want to control only the Central Heating or the Hot Water system.

EP210 is designed to give you a full control with only one device of both your Central Heating and Hot Water system.

EP310 is the most versatile product of this line and lets you manage two different Central Heating zones and the Hot Water with only one controller.

Installation

Input: 230V, 50Hz
Output: 3A/ switch terminal

1 EP110 Volt Free application only

Note: Please remove red link wire for this application.

Terminal	Description	Backplate
N	Mains Neutral	
L	Mains Live	
1	Not Used	
2	Not Used	
3	Volt Free Connection	
4	Volt Free Connection	
	Earth Parking (no electrical connection)	

EP110 - 230V Application Only

Terminal	Description	Backplate
N	Mains Neutral	
L	Mains Live	
1	NC (Output)	
2	Not Used	
3	Switch Live (Output)	
4	230V Common (via Link)	
	Earth Parking (no electrical connection)	

2 EP210 - 230V Application

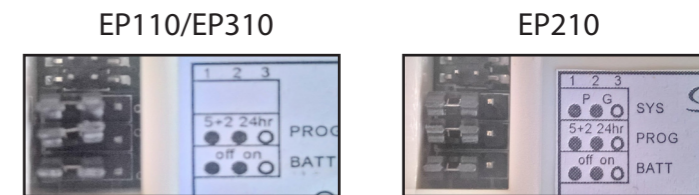
Terminal	Description	Backplate
N	Mains Neutral	
L	Mains Live	
1	Hot Water Off	
2	Central Heating Off	
3	Hot Water On	
4	Central Heating On	
	Earth Parking (no electrical connection)	

3 EP310 - 230V Application

Terminal	Description	Backplate
N	Mains Neutral	
L	Mains Live	
1	Hot Water Off	
2	Central Heating Off	
3	Hot Water On	
4	Central Heating 1 On	
5	Central Heating 2 On	
6	Central Heating 2 Off	
	Earth Parking (no electrical connection)	

Jumper Settings

Changes to the jumpers settings should only be made by the Engineer carrying out the installation or other qualified person. The installer should select the jumper positions required if changes need to be made to the factory default settings. These jumpers are found on the rear of the controller.

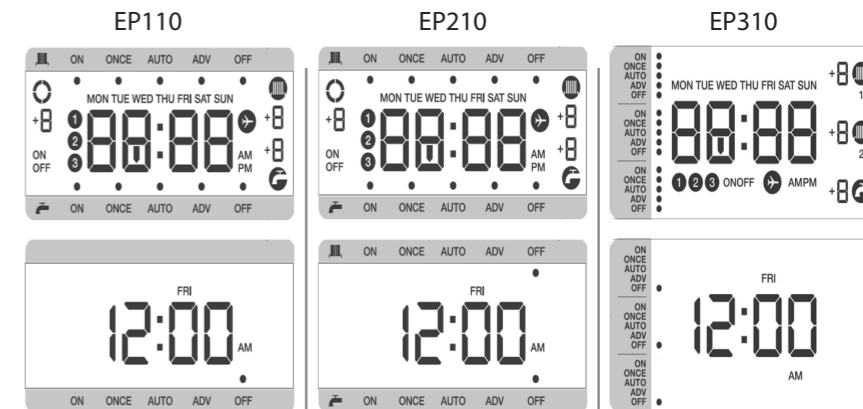


EP110/ EP210/ EP310 Switching Bridges					
Switch	Feature	EP110/310 Settings		EP210 Settings	
System	Fully pumped system(P*) or gravity-fed hot water system(G*)	NA	NA	<input checked="" type="radio"/> P	<input type="radio"/> G
Program	5-2 days programme or 24h programme	<input checked="" type="radio"/> 5-2	<input type="radio"/> 24H	<input checked="" type="radio"/> 5-2	<input type="radio"/> 24H
Memory Backup	Disable/enable the internal backup battery	<input type="radio"/> OFF	<input checked="" type="radio"/> ON	<input type="radio"/> OFF	<input checked="" type="radio"/> ON

* P - Fully pumped system for independent Central Heating and Hot Water.

* G - Gravity Hot Water system with Pumped Central Heating.

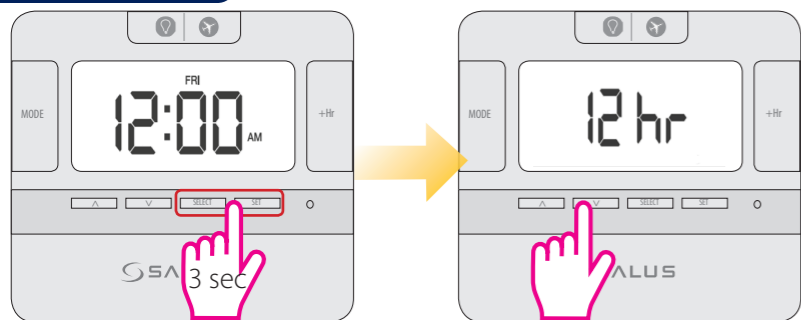
First Power Up



Button Function

Backlight/Holiday		1. Turn on the LCD backlight 2. Press for 3 sec to activate Holiday mode
Mode		Select operating mode (ON, ONCE, AUTO, ADV, OFF)
+1Hr		Activate/deactivate Boost function
Down		Decreases the selected setting
Up		Increases the selected setting
Select		Select a clock or programme setting
Set		Sets a clock or programme setting
Reset		Reset to Factory settings

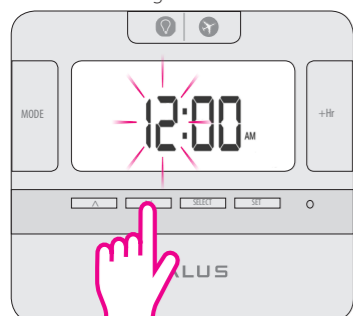
Setting date and time



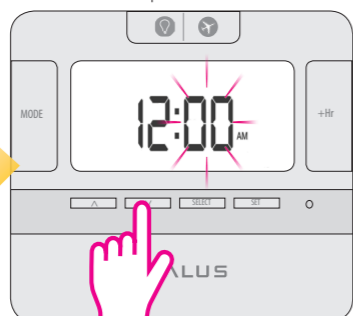
Press and hold the indicated buttons together for 3 sec.



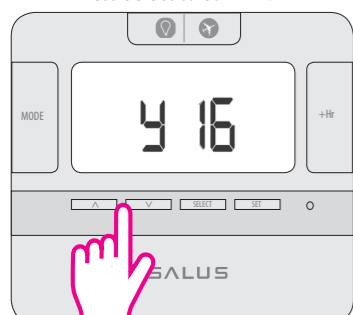
Choose your clock format and press Select.



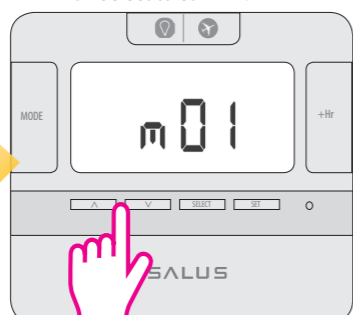
Press Up or Down to set the hour. Press Select to confirm.



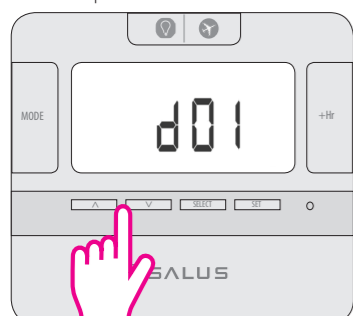
Press Up or Down to set the minutes. Tap on Select to confirm.



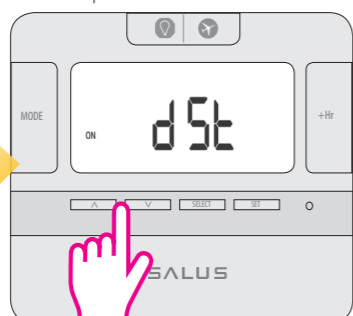
Press Up or Down to set the year. Tap on Select to confirm.



Press Up or Down to set the month. Tap on Select to confirm.



Press Up or Down to set the day. Tap on Select to confirm.



Press Up or Down to set the Daylight Saving Time On or Off. Tap on Set to confirm.

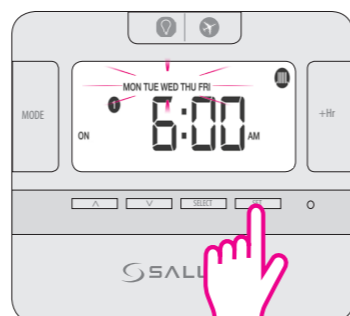
Note: In ONCE or AUTO mode, by long pressing the MODE button, the controller will switch automatically to ADV. You can cancel the ADV by long pressing the MODE key. The device will then return to ONCE or AUTO mode.

Programming the EP110; EP210; EP310

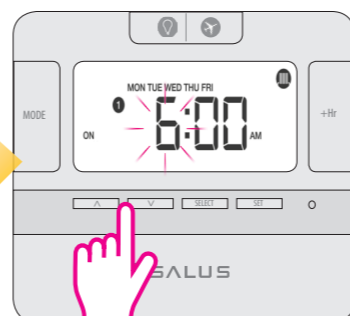
You can create personalized programmes for your controller. You have the option to choose between a 5-2 days programme or a daily one by using the jumpers.

5-2 Days Programme		
EP110 (1 Channel)	EP210 (2 Channels)	EP310 (3 Channels)
Weekdays 3 sets of time/channel Weekends 3 sets of time/channel Total: 6 settings/week	Weekdays 3 sets of time/channel Weekends 3 sets of time/channel Total: 12 settings/week	Weekdays 3 sets of time/channel Weekends 3 sets of time/channel Total: 18 settings/week

EP110



Press Set, then Up or Down to select weekdays or weekends. Press Select to confirm.



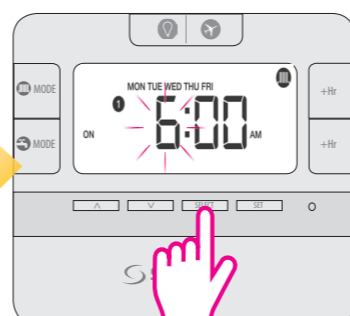
Press Up or Down to set the hour. Press Select to confirm.

Please repeat the procedure for the other 2 programmes available for weekdays and the 3 programmes available for weekends. At the end press Set to confirm your choices.

EP210



Press Set, then Up or Down to select weekdays or weekends. Press Select to confirm.



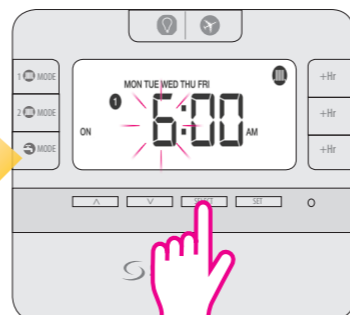
Press Up or Down to set the hour. Press Select to confirm.

Please repeat the procedure for all the programmes and channels that are available for this model.

EP310



Press Set and Up or Down to select weekdays or weekends. Tap on Select to confirm.



Press Up or Down to set the hour. Press Select to confirm.

Please repeat the procedure for all the programmes and channels that are available for this model.

Individual days programme

EP110 (1 Channel)	EP210 (2 Channels)	EP310 (3 Channels)
1 Day 3 sets of time/channel Total: 21 settings/week	1 Day 3 sets of time/channel Total: 42 settings/week	1 Day 3 sets of time/channel Total: 63 settings/week

Note: Don't forget to move the jumpers to 24h in order to have the individual programme active. After that please follow the same instructions as for the 5-2 days programme.

The circle will be rotating for EP110 and for EP210/EP310 will remain steady when the relay output is ON. For EP210 and EP310 the and/or icon will be visible on the screen.

Change the channels for EP210/ EP310

For changing the channel of your device (CH and/or HW) press the Mode button with the desired channel. The procedure is the same for EP210/EP310.



Press CH Mode for Central Heating



Press HW Mode for Hot Water

Other Functions

1. +Hr Program Override (Boost)

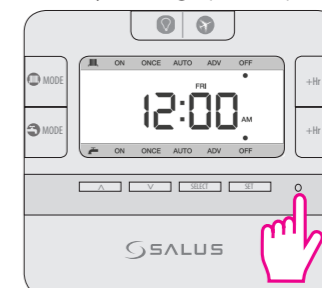
This function is available in ONCE/AUTO/ADV/OFF. After pressing the button, the function will be immediately applied. You can override the program for maximum 9 hours. For cancelling the Boost function, press the button repeatedly until the +8 hours disappears.

2. BL/Holiday function

Press the button once and the backlight will be turned on. Press and hold the button for 3 seconds to activate the Holiday Mode. Press or to select the number of days for the Holiday Mode and to confirm your choice. Press and hold the button for 3 seconds to cancel the Holiday Mode.

3. Factory Reset

If you want to return to the factory settings please press the Reset button once (use a pin for this action).



Operating modes

All three models have the following five Operating modes. You can select them by pressing the MODE button.

Operating Mode	Function
ON	Continuously on
ONCE	On for 1 period a day, from Program 1 ON to Program 3 OFF
AUTO	Automatic program control
ADV	When device is in Auto or Once mode, press the MODE button for 3 sec for selecting Advance (ADV). This will move the unit into the next program. When the ADV function ends the device will return to normal program.
OFF	Continuously off