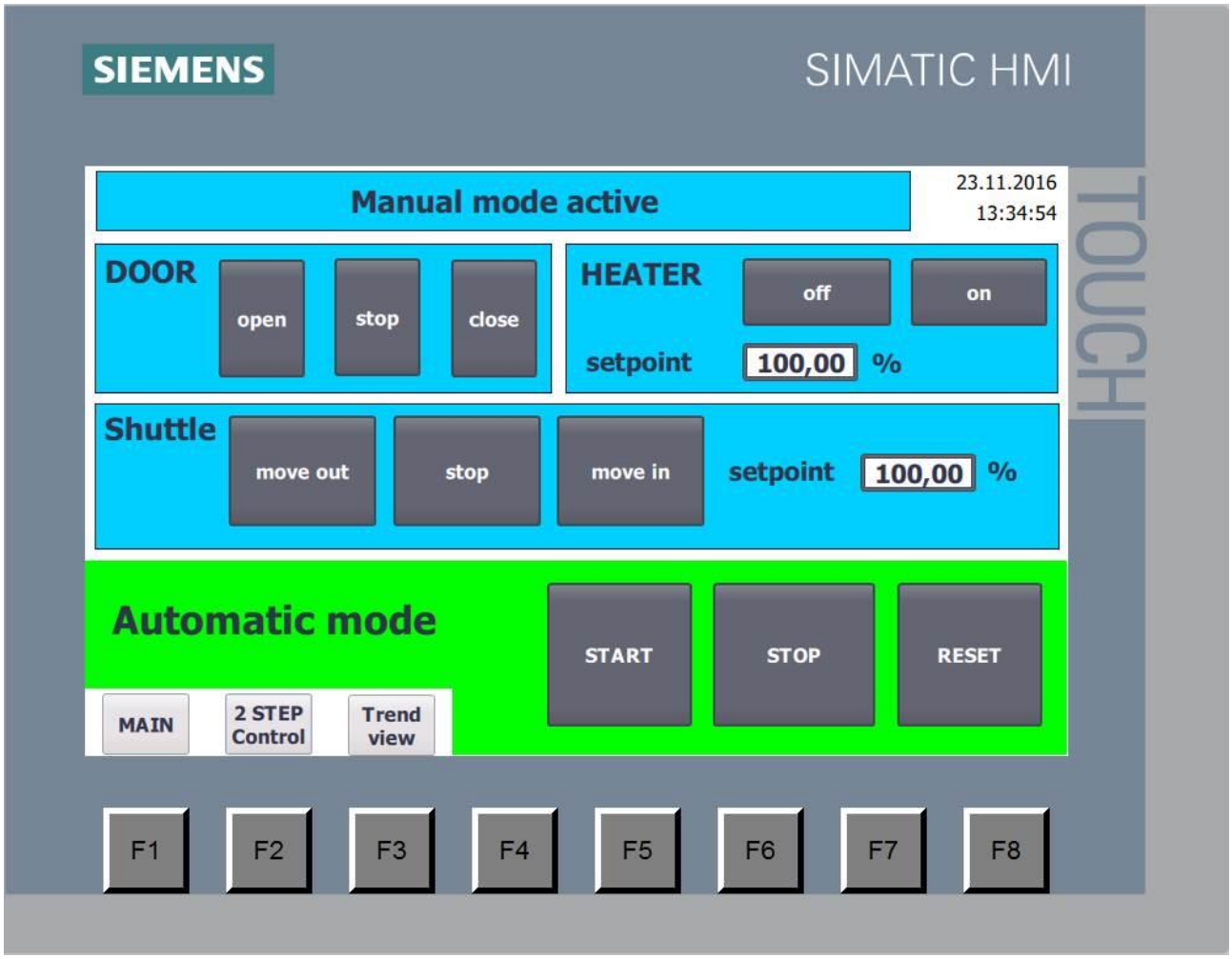
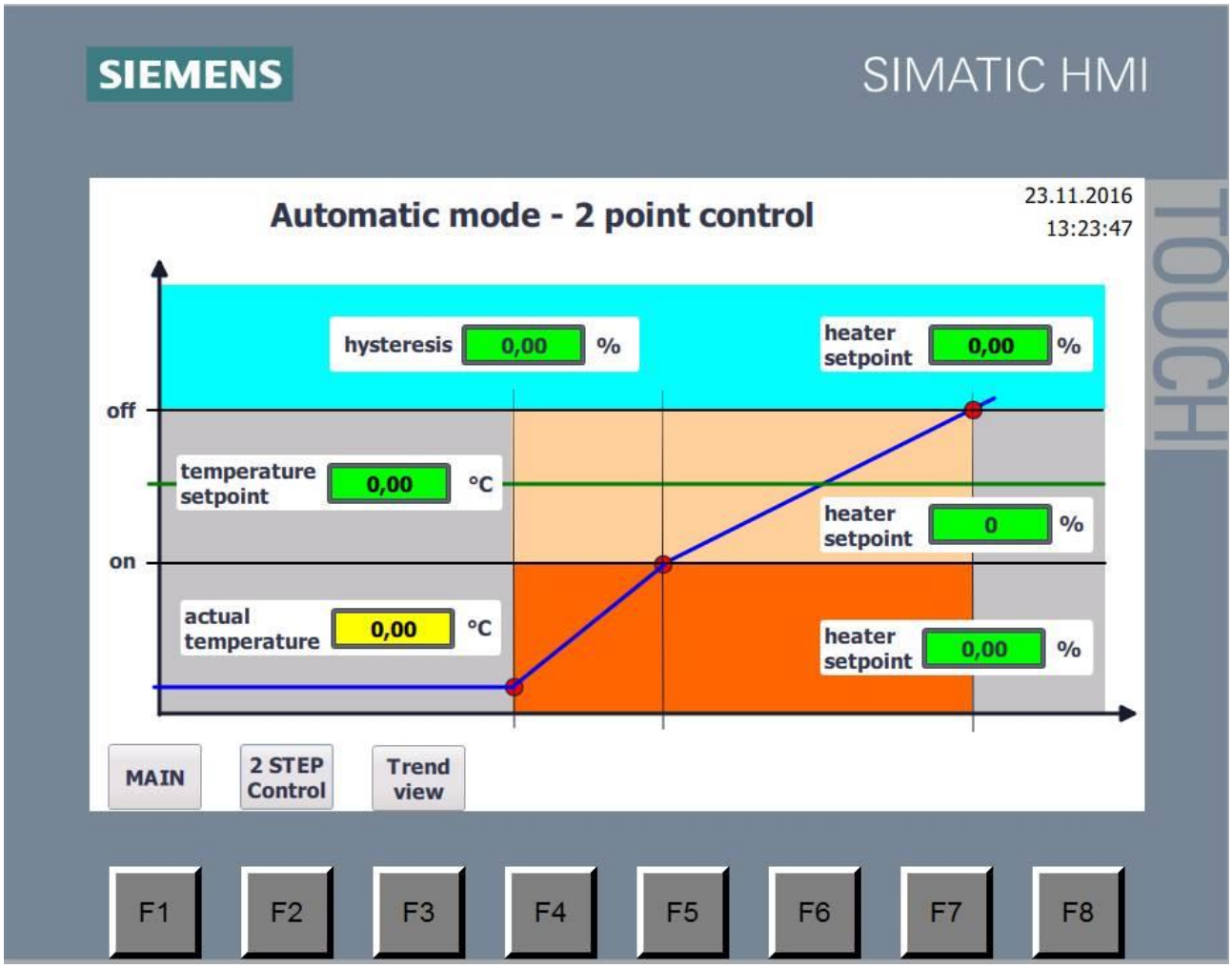
HMI - CONFIGURATION

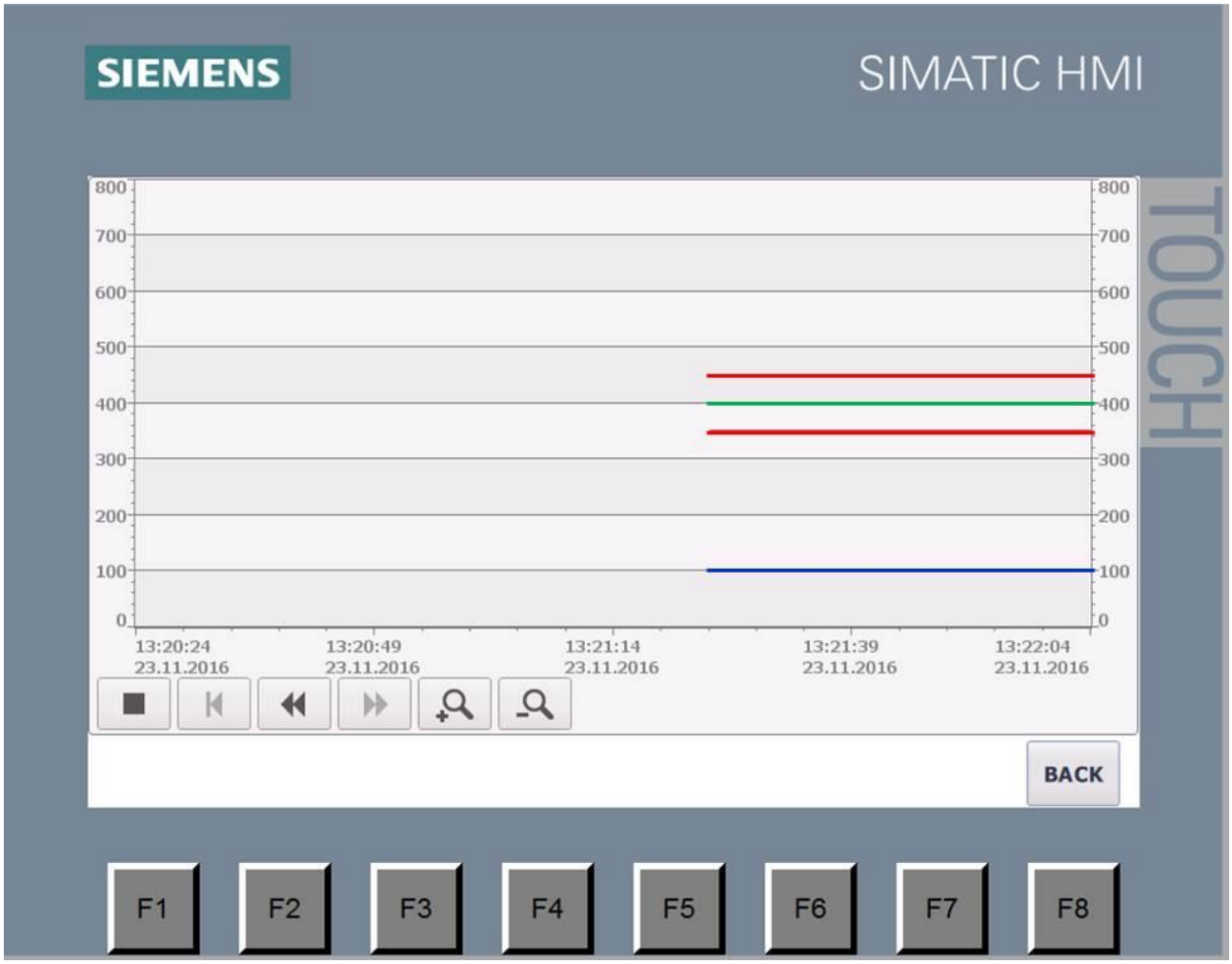
SCREEN: MAIN



SCREEN: 2 POINT CONTROL



SCREEN: TREND VIEW



HMI VARIABLES

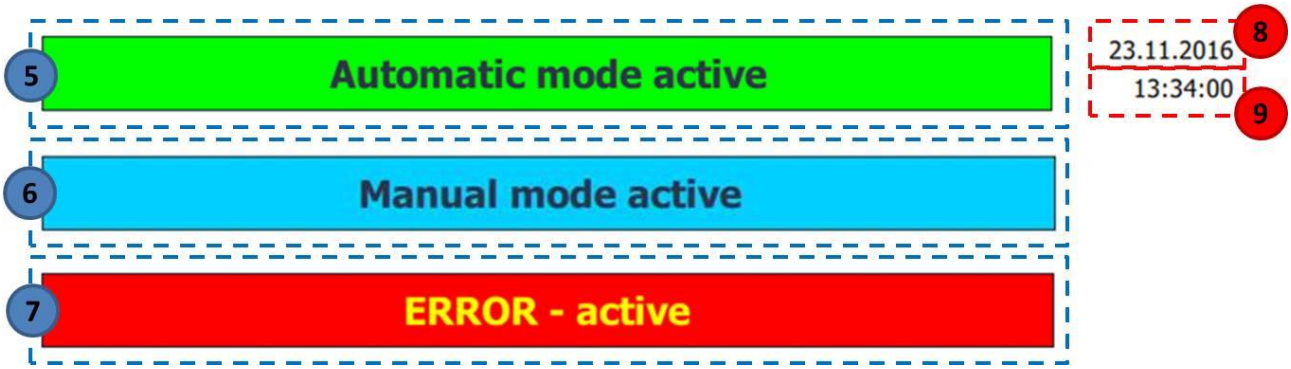
SYMBOL	TYPE	COMMENT	IN USE
Mode_Auto	BOOL	PLC-Variable	read
Mode_Manual	BOOL	PLC-Variable	read
Error_active	BOOL	PLC-Variable	read
Door_open	BOOL	PLC-Variable	write
Valve_MB1	BOOL	**PLC-Output**	read
Door_stop	BOOL	PLC-Variable	write
Door_close	BOOL	PLC-Variable	write
Valve_MB2	BOOL	**PLC-Output**	read
Heater_off	BOOL	PLC-Variable	write
Heater_on	BOOL	PLC-Variable	write
Heater_is_on	BOOL	PLC-Variable	read
Heater_setpoint_1	REAL	PLC-Variable	read/write
Shuttle_move_out	BOOL	PLC-Variable	write
Shuttle_stop	BOOL	PLC-Variable	write
Shuttle_move_in	BOOL	PLC-Variable	write
Shuttle_setpoint	REAL	PLC-Variable	read/write
Auto_start	BOOL	PLC-Variable	write
Cycle_active	BOOL	PLC-Variable	read
Auto_stop	BOOL	PLC-Variable	write
Auto_reset	BOOL	PLC-Variable	write
Temperature_setpoint	REAL	PLC-Variable	read/write
Hysteresis	REAL	PLC-Variable	read/write
Heater_setpoint_2	REAL	PLC-Variable	read/write
Heater_setpoint_3	REAL	PLC-Variable	read/write

Heater_setpoint_4	REAL	PLC-Variable	read/write
Temperature_actual	REAL	PLC-Variable	read
Point_off	REAL	PLC-Variable	read
Point_on	REAL	PLC-Variable	read

ACTIVATE SCREENS

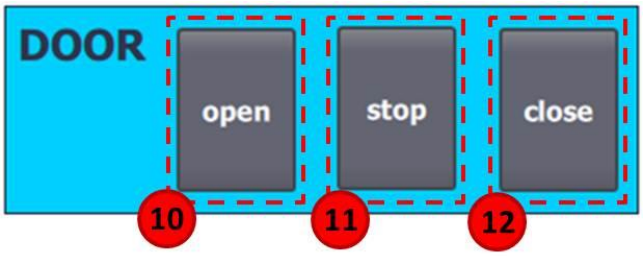
POSITION	VARIABLE	ACTION	COMMENT
1	- - - -	Button Event	Activate Screen "MAIN"
2	- - - -	Button Event	Activate Screen "2 STEP CONTROL"
3	- - - -	Button Event	Activate Screen "Trend view"
4	- - - -	Button Event	Activate Previous Screen

DETAILS: SCREEN - MAIN



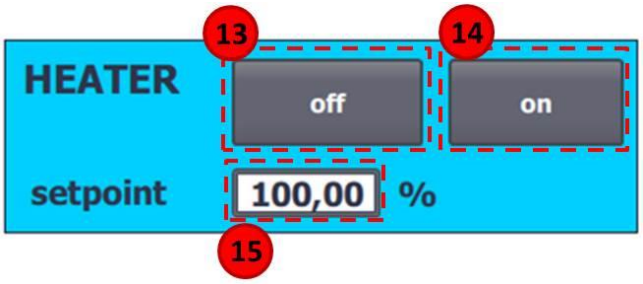
POSITION	VARIABLE	ACTION	COMMENT
5	Mode_Auto	Text field Visibility	State "0" = Invisible State "1 " = Visible
6	Mode_Manual	Text field Visibility	State "0" = Invisible State "1" = Visible
7	Error_active	Text field Visibility	State "0 " = Invisible State "1" = Visible
8	- - - -	Date/Time field	Show date as input/output field
9	- - - -	Date/Time field	Show time as input/output field

DETAILS: MANUAL MODE -DOOR



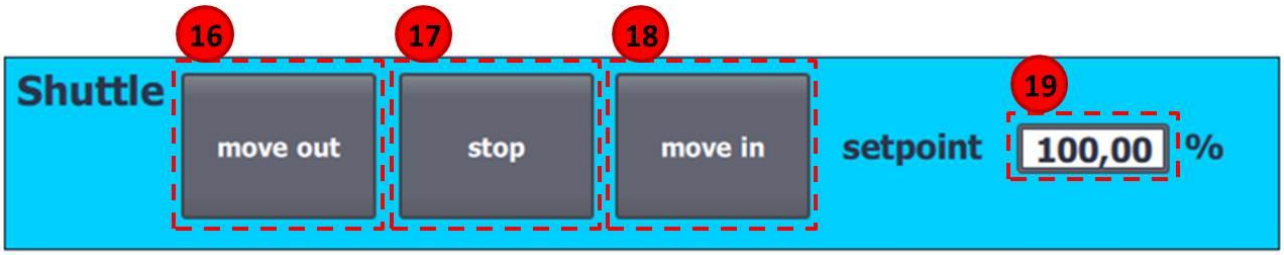
POSITION	VARIABLE	ACTION	COMMENT
10	Door_open	Button Event	Set Bit while Key pressed
	Valve_MB1	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
11	Door_stop	Button Event	Set Bit while Key pressed
12	Door_close	Button Event	Set Bit while Key pressed
	Valve_MB2	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN

DETAIL: MANUAL MODE - HEATER



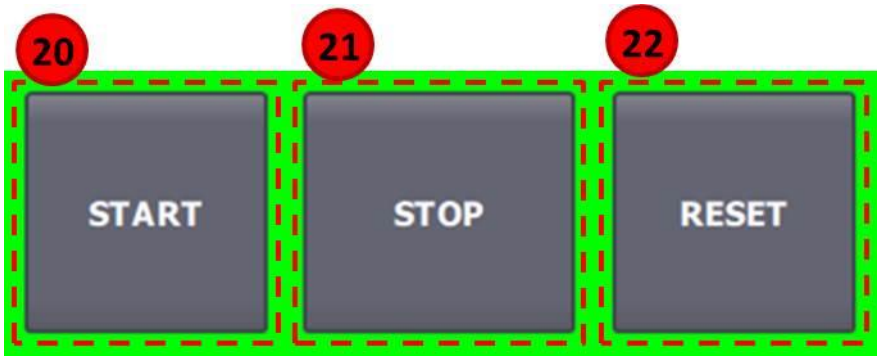
POSITION	VARIABLE	ACTION	COMMENT
13	Heater_off	Button Event	Set Bit while Key pressed
14	Heater_on	Button Event	Set Bit while Key pressed
	Heater_is_on	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
15	Heater_setpoint_1	Input/output field	Range: 0,00 to 100,00

DETAILS: MANUAL MODE - SHUTTLE



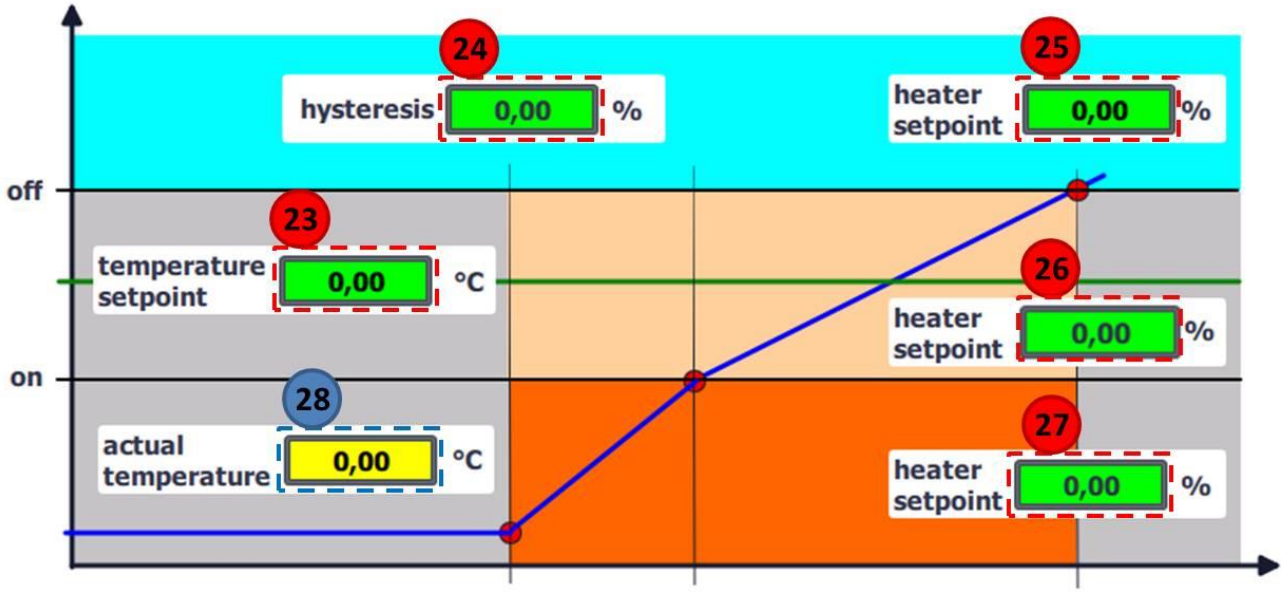
POSITION	VARIABLE	ACTION	COMMENT
16	Shuttle_move_out	Button Event	Set Bit while Key pressed
17	Shuttle_stop	Button Event	Set Bit while Key pressed
18	Shuttle_move_in	Button Event	Set Bit while Key pressed
19	Shuttle_Setpoint	Input/output field	Range: 0,00 to 100,00

DETAILS: AUTOMATIC MODE – CONTROL PANEL



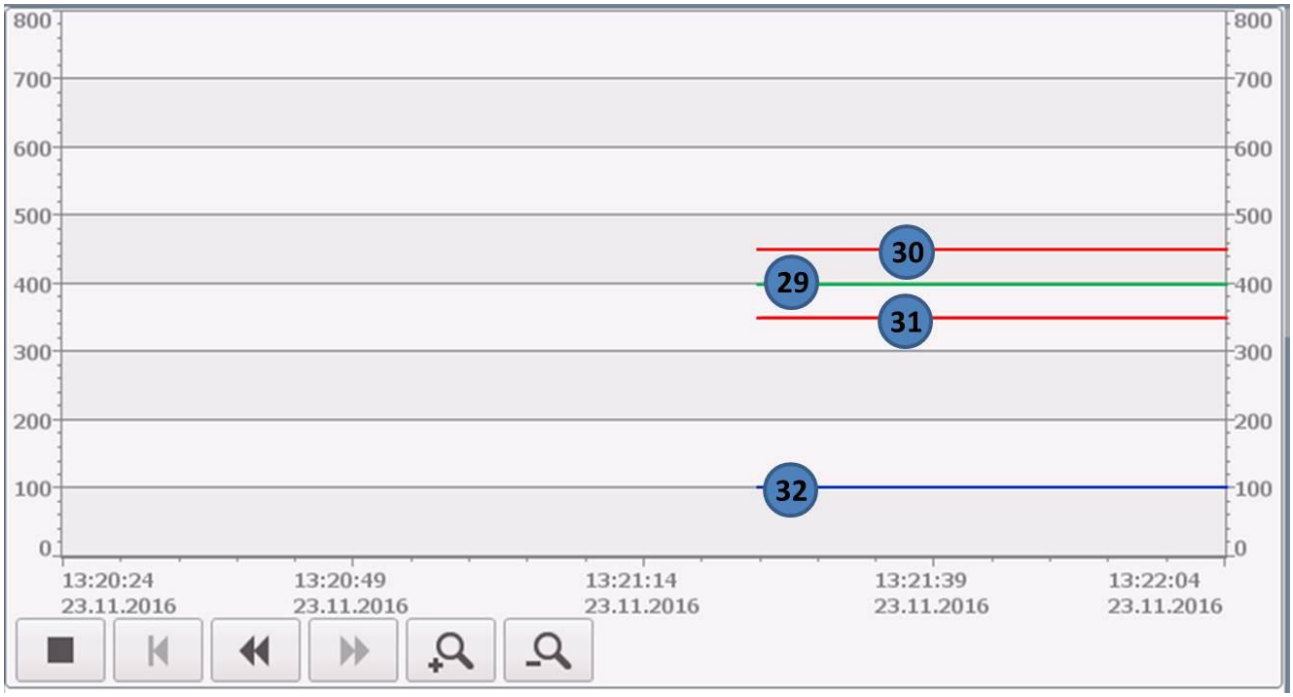
POSITION	VARIABLE	ACTION	COMMENT
20	Auto_start	Button Event	Set Bit while Key pressed
	Cycle_active	Background Control Colour	State "0 " = colour = GRAY State "1 " = colour = GREEN
21	Auto_stop	Button Event	Set Bit while Key pressed
22	Auto_reset	Button Event	Set Bit while Key pressed

DETAILS: SCREEN 2 POINT CONTROL



POSITION	VARIABLE	ACTION	COMMENT
23	Temperature_setpoint	Input/output field	Range: 0,00 to 800,00
24	Hysteresis	Input/output field	Range: 0,00 to 100,00
25	Heater_setpoint_4	Input/output field	Range: 0,00 to 100,00
26	Heater_setpoint_3	Input/output field	Range: 0,00 to 100,00
27	Heater_setpoint_2	Input/output field	Range: 0,00 to 100,00
28	Temperature_actual	Output field	Range: 0,00 to 800,00

DETAILS: SCREEN TRENT VIEW



POSITION	VARIABLE	ACTION	COMMENT
29	Temperature_setpoint	Trend	Style green; Trend values: 999
30	Point_off	Trend	Style red; Trend values: 999
31	Point_on	Trend	Style red; Trend values: 999
32	Temperature_actual	Trend	Style blue; Trend values: 999
- - - -	- - - -	Properties - Time axis	Range: 100s

Designed by Andreas Puchner for Euro Skills 2016.