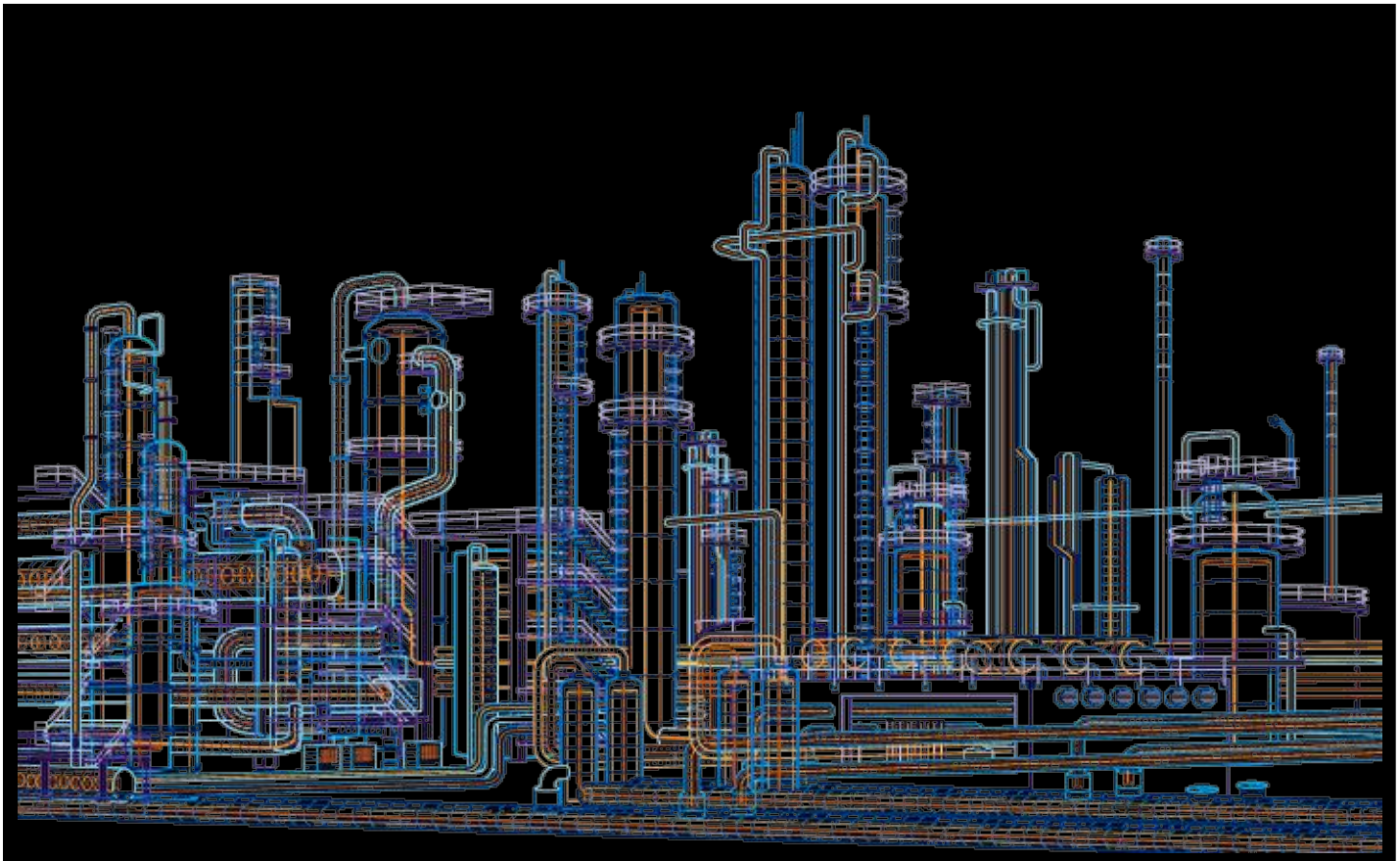

System 800xA
PC Toolkit Library for Melody
Human System Interface - Single Flags
User Manual

SV5.1RevA

Power and productivity
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Purpose

The purpose of this document is to describe the Human System Interface with Faceplates and Graphic Elements of the System 800xA with connectivity to Melody/AC870P. All elements are part of an 800xA System Extension, which will be used mainly in the Petrochemical Industry but also in other Process industries. This document defines the ABB Control System standards for the Human Machine Interface (HMI).

Conditions

The System Extension supports 800xA System Version SV5.1RevA.

Notice

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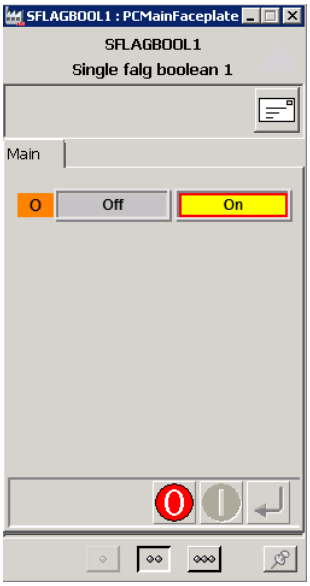
Human System Interface (Classic Style)

1. SFLAG – Single Flag Boolean



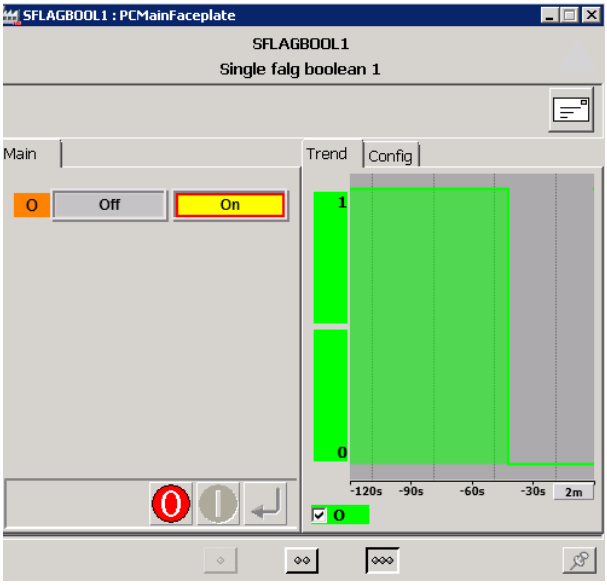


Figure: 1-1 Main View *Figure: 1-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Boolean
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 1-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 1-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 1-3 Sizing Information

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_bool_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_bool_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_bool_FE_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	sflag_bool_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 1-4 Faceplate Aspect names

1.1 Faceplate elements

1.1.1 sflag_bool_FE_Main PG2

This is the main view for the Single Flag Boolean object type faceplate.

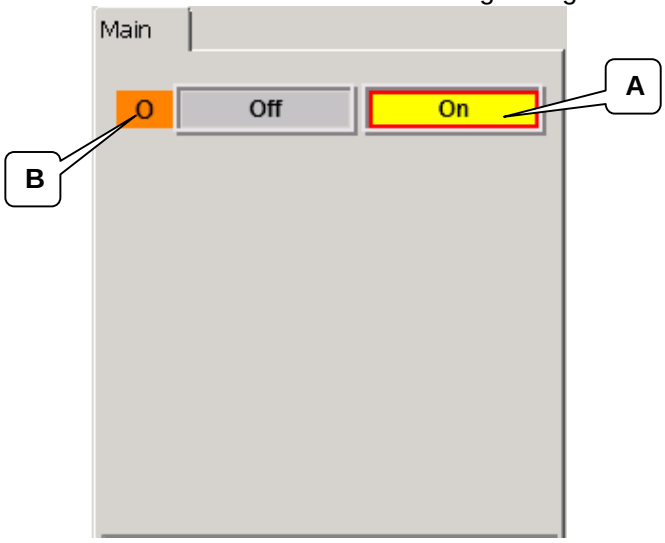


Figure: 1-3 Main Tab

ID	Comment	Property
A	Indication of binary state (yellow color means active state, red rectangle means alarm)	State: O/SIG Alarm: O/ALARM Texts: O/SIG0, O/SIG1
B	Fill color indicates active alarm of corresponding priority level	Alarm: O/ALARM Color: O/PRI

Table: 1-5 Classic Faceplate Main tab Description

1.1.2 sflag_bool_FE_Trend PG2

This is the trend view for the Single Flag Boolean object type faceplate.

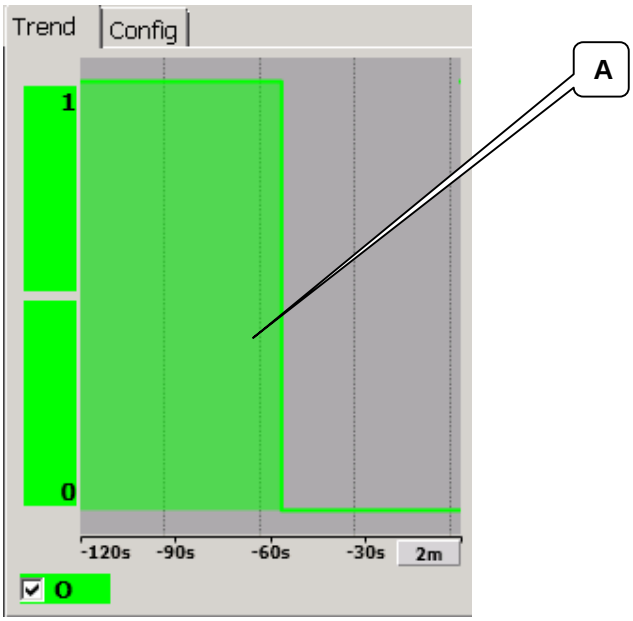


Figure: 1-4 Trend Tab

ID	Comment	Property
A	Indication of module output value (“O” label)	O/SIG

Table: 1-6 Classic Faceplate Trend tab Description

1.1.3 sflag_bool_FE_Config PG2

Operation Lock and Manual Inhibit Write Permissions

The Melody faceplates' configuration tab allows checking **Operation Lock** in order to inhibit operator inputs. All buttons will be grayed out. Refer to document 3BDA033456R51xx Installation and Configuration in order to change the default write permission.

There is no Operation Lock Functionality available for Single Flag types.

Manual Inhibit can be selected to manually inhibit all alarms of this Melody tag.

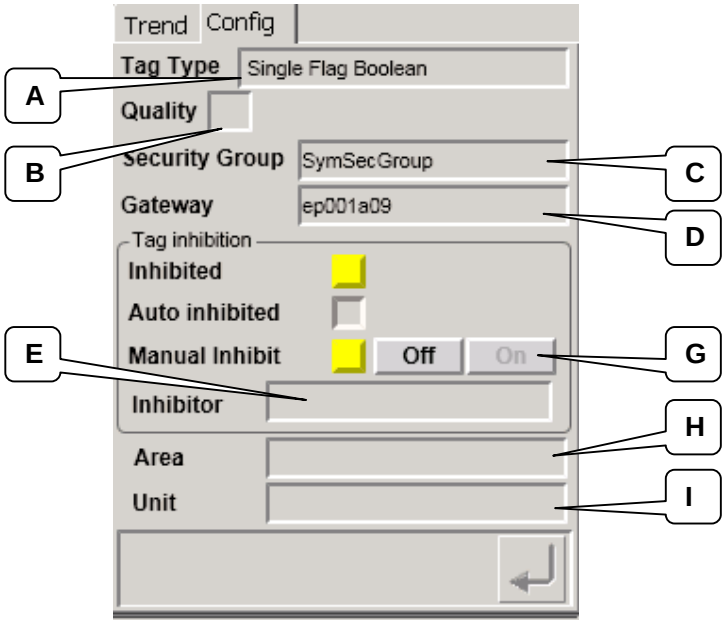


Figure: 1-5 Config Tab

ID	Comment	Property
A	Text describing the type of the tag	TYPE
B	Character which is providing Melody quality information	QUALITY
C	Text describing the Melody security group to which this tag belongs	SECNAME
D	Text describing the Melody gateway to which this tag belongs	GATEWAY
E	Rectangle indicators are showing inhibition status (Yellow color = On), Manual inhibit buttons allow to manually inhibit the tag	INHB INHBAUTO INHBMAN
F	Information about inhibitor	INHBTAG
G	Text describing Melody area to which tag belongs	AREA
H	Text describing Melody unit to which tag belongs	UNIT

Table: 1-7 Classic Faceplate Config tab Description

1.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	O/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 1-8 Indicators

1.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 1-9 Aspect Links

1.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Set output to false	O/SIG (False)	1	1	1
	Set output to true	O/SIG (True)	2	2	2
	Apply the selected action	-	6	6	12

Table: 1-10 Faceplate Buttons

1.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 1-11 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type Single Flag Boolean

Example	Graphic Element Name	Description
	sflag_bool_cmd0_op_PG2	Command button „OFF". Push button with apply.
	sflag_bool_cmd0_op_1step_PG2	Command button „OFF". Push button without apply.
	sflag_bool_cmd0_cmd1_op_PG2	Command button "OFF/ON".

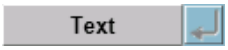
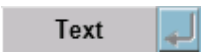
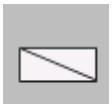
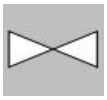
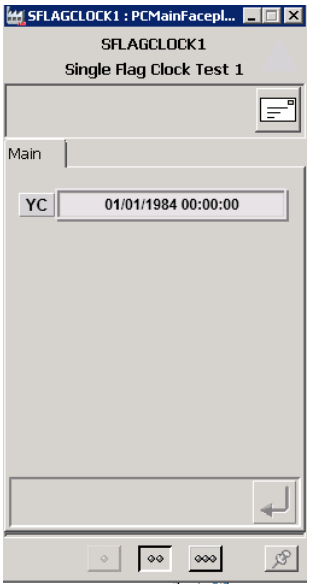
Example	Graphic Element Name	Description
		Push button with apply.
	sflag_bool_cmd1_op_PG2	Command button „ON”. Push button with apply.
	sflag_bool_cmd1_op_1step_PG2	Command button „ON”. Push button without apply.
	sflag_bool_o_value_op_text_pg2	Command “ON/OFF” with text. Push button with apply.
	sflag_bool_o_value_op_text1_pg2	Command “ON/OFF” with text. Push button with apply.
	sflag_bool_o_value_op_text2_pg2	Command “ON/OFF” with text. Push button with apply.
	sflag_bool_o_value_op_text3_pg2	Command “ON/OFF” with text. Push button with apply.
	sflag_bool_o_value_op_text_1step_pg2	Command “ON/OFF” with text. Push button with apply.
	sflag_bool_flap_PG2	Mode icon Flap
	sflag_bool_valve_PG2	Mode icon Valve
	sflag_bool_return_PG2	Mode icon Return for Boolean

Table: 1-12 Melody Single Flag Boolean GE

2. SFLAG – Single Flag Clock



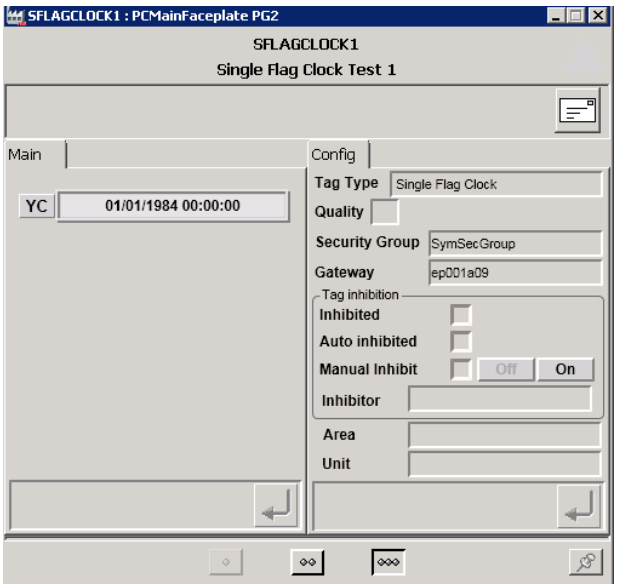


Figure: 2-1 Main View *Figure: 2-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Clock
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 2-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 2-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 2-3 Sizing Information

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_clock_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_clock_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_clock_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 2-4 Faceplate Aspect names

2.1 Faceplate Elements

2.1.1 sflag_clock_FE_Main PG2

This is the main view for the Single Flag Clock object type faceplate. Operator input is possible and based on access rights to the signals.

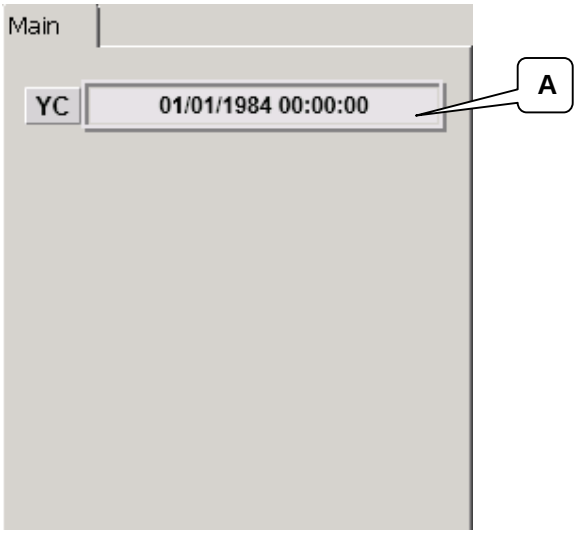


Figure: 2-3 Main Tab

ID	Comment	Property
A	Indication of time value	YC/SIG

Table: 2-5 Item Description

2.1.2 sflag_clock_FE_Config PG2

Refer to 1.1.3 sflag_bool_FE_Config PG2

2.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YC/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 2-6 Indicators

2.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 2-7 Aspect Links

2.4 Faceplate Buttons

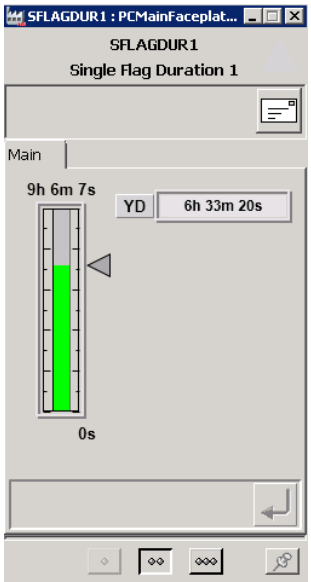
Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	6	6	12

Table: 2-8 Faceplate Buttons

2.5 Graphic Elements

There are no graphic elements for this object type

3. SFLAG – Single Flag Duration



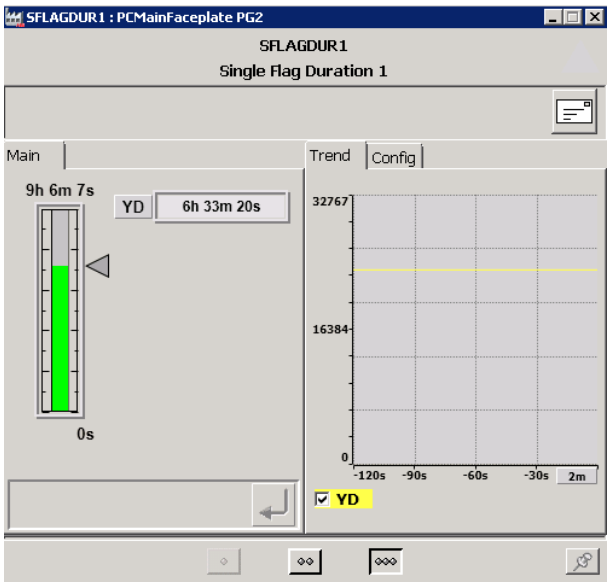


Figure: 3-1 Main View *Figure: 3-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Duration
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 3-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 3-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 3-3 Sizing Information

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_duration_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_duration_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_duration_FE_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	sflag_duration_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 3-4 Faceplate Aspect names

3.1 Faceplate elements

3.1.1 sflag_duration_FE_Main PG2

This is the main view for the Single Flag Duration object type faceplate. Operator input is possible and based on access rights to the signals.

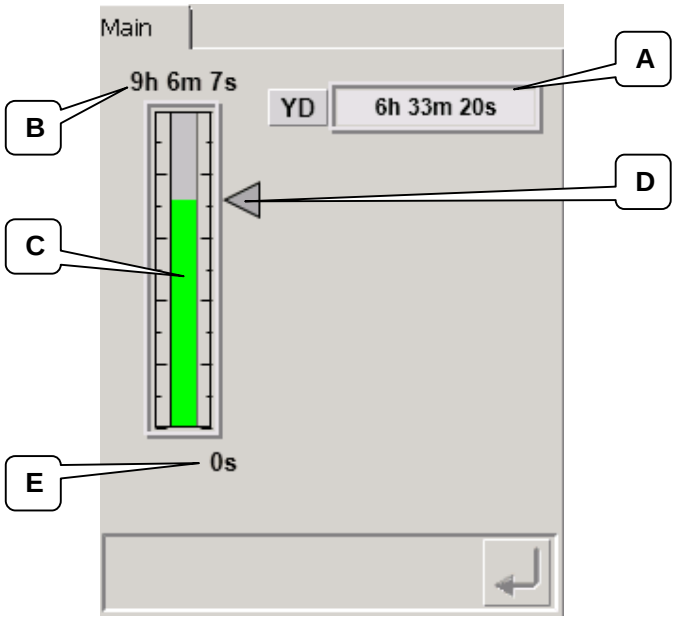


Figure: 3-3 Main Tab

ID	Comment	Property
A	Indication of time value	YD/SIG
B	Maximum range of time value	Constant: 9h 6m 7s
C	Bar graph presentation of time value	YD/SIG
D	Input of time value	YD/SIG
E	Minimum range of time value	Constant: 0s

Table: 3-5 Classic Faceplate Main tab Description

3.1.2 sflag_duration_FE_Trend PG2

This is the trend view for the Single Flag Duration object type faceplate. The time value is presented as number of seconds.

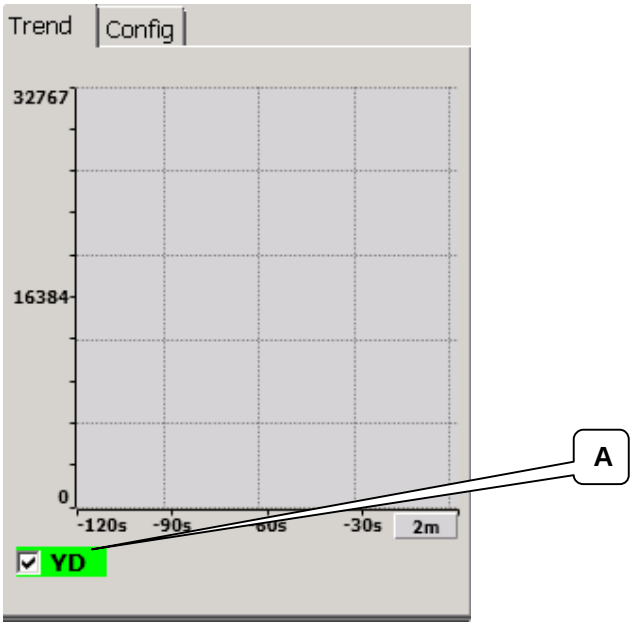


Figure: 3-4 Classic Faceplate Trend Tab

ID	Comment	Property
A	Indication of module output value (“YD” label)	YD/SIG

Table: 3-6 Classic Faceplate Trend tab Description

3.1.3 sflag_duration_FE_Config PG2

Refer to 1.1.3 sflag_bool_FE_Config PG2

3.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YD/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 3-7 Indicators

3.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 3-8 Aspect Links

3.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	6	6	12

Table: 3-9 Faceplate Buttons

3.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.

Property	Data type	Default value	Description
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

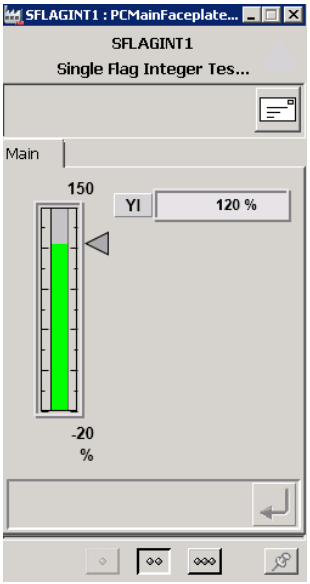
Table: 3-10 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG DURATION

Example	Graphic Element Name	Description
06h 05m 53s	sflag_duration_numeric_PG2	Indicator text box with numeric formatting displaying duration
06h 05m 53s	sflag_duration_numeric_op_PG2	Indicator text box, that allows operator input, with numeric formatting displaying duration

Table: 3-11 Melody Single Flag Duration GE

4. SFLAG – Single Flag Integer



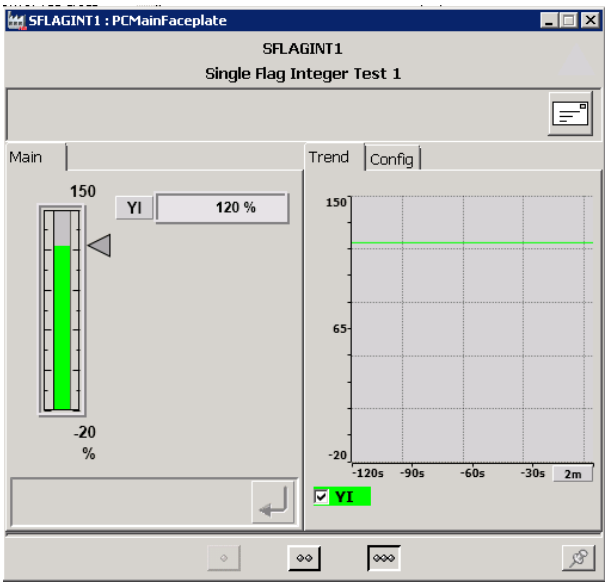


Figure: 4-1 Main View *Figure: 4-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Integer
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 4-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 4-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 4-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_integer_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_integer_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_integer_FE_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	sflag_integer_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 4-4 Faceplate Aspect names

4.1 Faceplate elements

4.1.1 sflag_integer_FE_Main PG2

This is the main view for the Single Flag Integer object type faceplate. Operator input is possible and based on access rights to the signals.

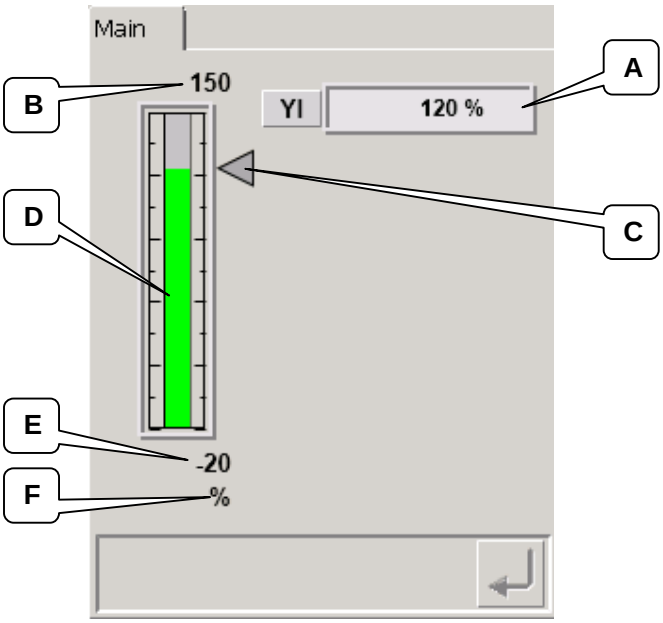


Figure: 4-3 Main Tab

ID	Comment	Property
A	Indication of integer value	YI/SIG
B	Maximum range of integer value	YI/HIGH
C	Bar graph presentation of integer value	YI/SIG
D	Input of integer value	YI/SIG
E	Minimum range of integer value	YI/LOW
F	Minimum range of integer value	YI/UNITS

Table: 4-5 Classic Faceplate Main tab Description

4.1.2 sflag_integer_FE_Trend PG2

This is the trend view for the Single Flag Integer object type faceplate.

.

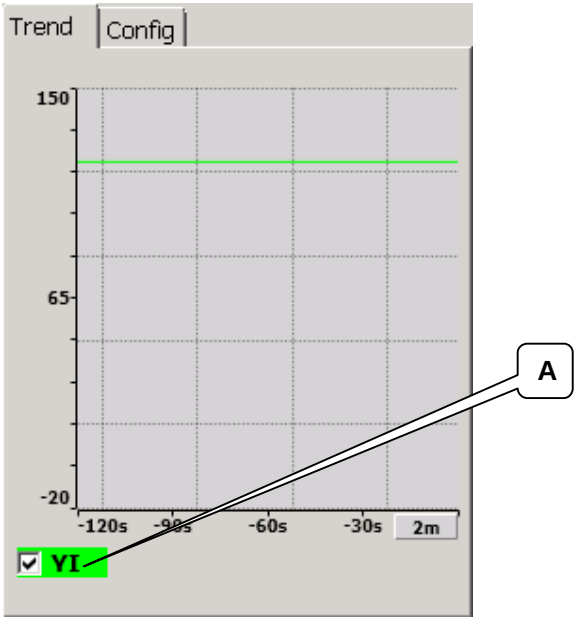


Figure: 4-4 Trend Tab

ID	Comment	Property
A	Indication of module output integer value (“YI” label)	YI/SIG

Table: 4-6 Classic Faceplate Trend tab Description

4.1.3 sflag_integer_FE_Config PG2

Refer to 1.1.3 sflag_bool_FE_Config PG2

4.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YI/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 4-7 Indicators

4.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 4-8 Aspect Links

4.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	6	6	12

Table: 4-9 Faceplate Buttons

4.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.

Property	Data type	Default value	Description
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 4-10 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG INTEGER

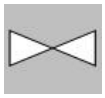
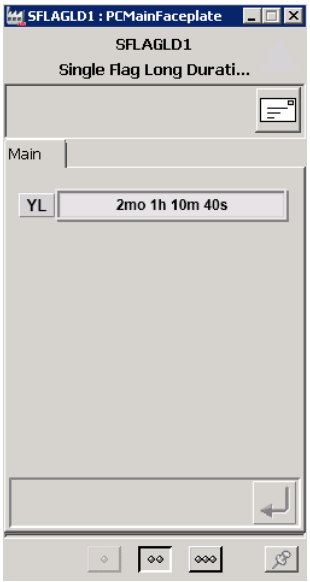
Example	Graphic Element Name	Description
	sflag_integer_valve_PG2	Mode icon Valve for integer
	sflag_integer_bargraph_PG2	Bargraph for integer input/output values
	sflag_integer_duration_PG2	Indicator text box with time duration formatting displaying integer
	sflag_integer_numeric_PG2	Indicator text box with numeric formatting displaying integer
	sflag_integer_numeric_op_PG2	Indicator text box, that allows operator input, with numeric formatting displaying integer

Table: 4-11 Melody Single Flag Integer GE

5. SFLAG – Single Flag Long Duration



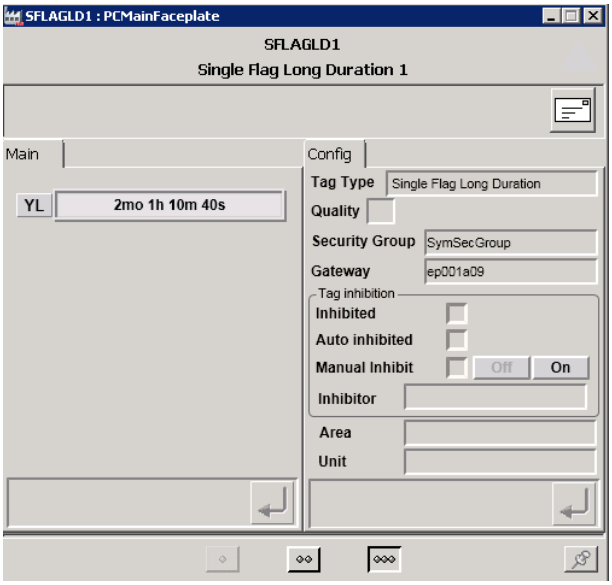


Figure: 5-1 Main View *Figure: 5-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Long Duration
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 5-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 5-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 5-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_ld_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_ld_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_ld_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 5-4 Faceplate Aspect names

5.1 Faceplate elements

5.1.1 sflag_ld_FE_Main PG2

This is the main view for the Single Flag Long Duration object type faceplate. Operator input is possible and based on access rights to the signals.

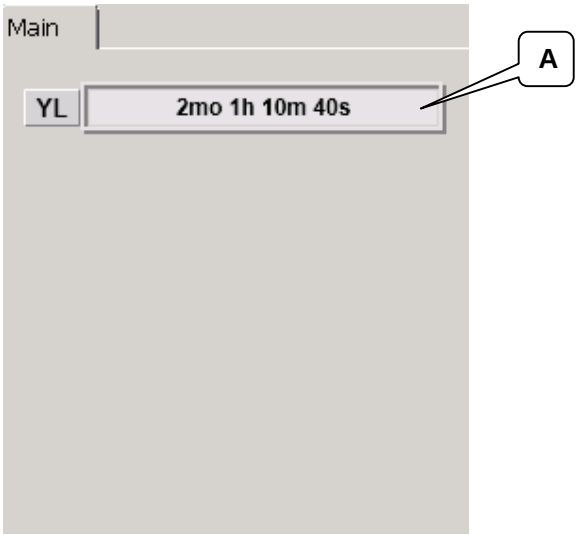


Figure: 5-3 Main Tab

ID	Comment	Property
A	Indication of time value	YL/SIG

Table: 5-5 Classic Faceplate Main tab Description

5.1.2 sflag_ld_FE_Config PG2

Refer to 1.1.3 sflag_bool_FE_Config PG2

5.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YL/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 5-6 Indicators

5.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 5-7 Aspect Links

5.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	6	6	12

Table: 5-8 Faceplate Buttons

5.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.
XPos	Float	-	X position of the upper left

Property	Data type	Default value	Description
			corner of the element
YPos	Float	-	Y position of the upper left corner of the element

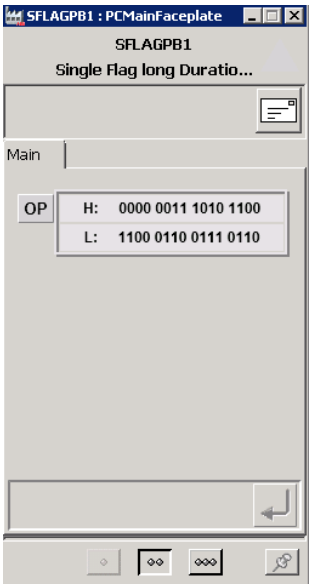
Table: 5-9 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG LONG DURATION

Example	Graphic Element Name	Description
06h 05m 53s	sflag_ld_numeric_PG2	Indicator text box with numeric formatting displaying long duration
06h 05m 53s	sflag_ld_numeric_op_PG2	Operable indicator text box with numeric formatting displaying long duration

Table: 5-10 Melody Single Flag Long Duration GE

6. SFLAG – Single Flag Packed Boolean



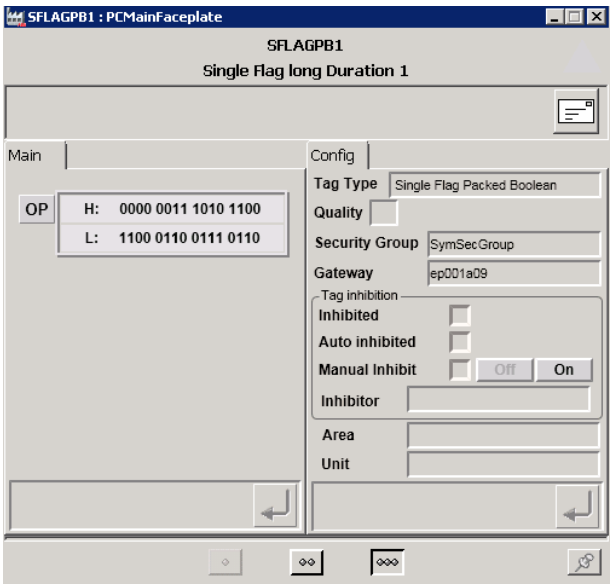


Figure: 6-1 Main View *Figure: 6-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Packed Boolean
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 6-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 6-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 6-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_pbool_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_pbool_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_pbool_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 6-4 Faceplate Aspect names

6.1 Faceplate elements

6.1.1 sflag_pbool_FE_Main PG2

This is the main view for the Single Flag Packed Boolean object type faceplate. Operator input is possible and based on access rights to the signals.

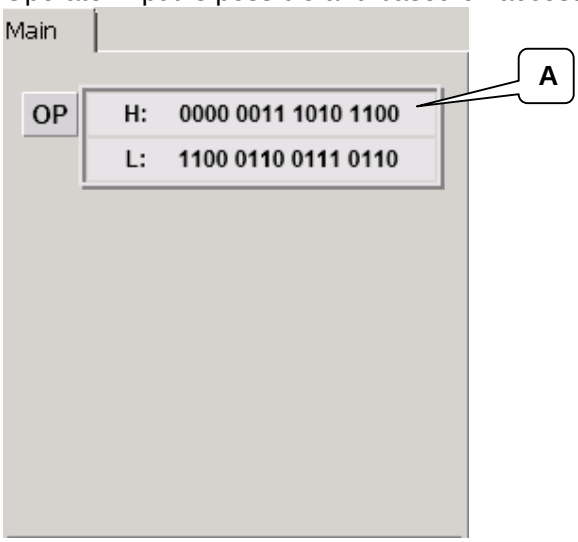


Figure: 6-3 Main Tab

ID	Comment	Property
A	Indication of packed boolean value – High and Low word	OP/SIG

Table: 6-5 Classic Faceplate Main tab Description

6.1.2 sflag_pbool_FE_Config PG2

Refer to 1.1.3 sflag_bool_FE_Config PG2

6.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	OP/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 6-6 Indicators

6.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 6-7 Aspect Links

6.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	6	6	12

Table: 6-8 Faceplate Buttons

6.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.
XPos	Float	-	X position of the upper left

Property	Data type	Default value	Description
			corner of the element
YPos	Float	-	Y position of the upper left corner of the element

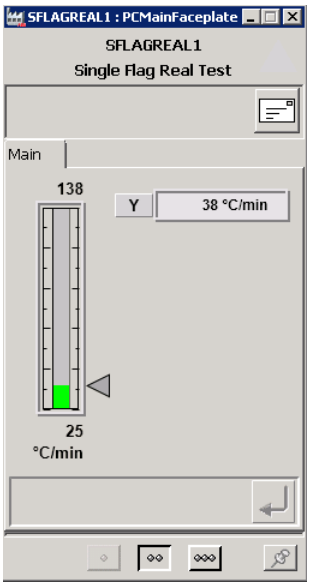
Table: 6-9 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG PACKED BOOLEAN

Example	Graphic Element Name	Description
	sflag_pbool_text_PG2	Indicator text box for packed Boolean. 16 different text entries in order of signal OP are possible

Table: 6-10 Melody Single Flag Packed Boolean GE

7. SFLAG – Single Flag Real



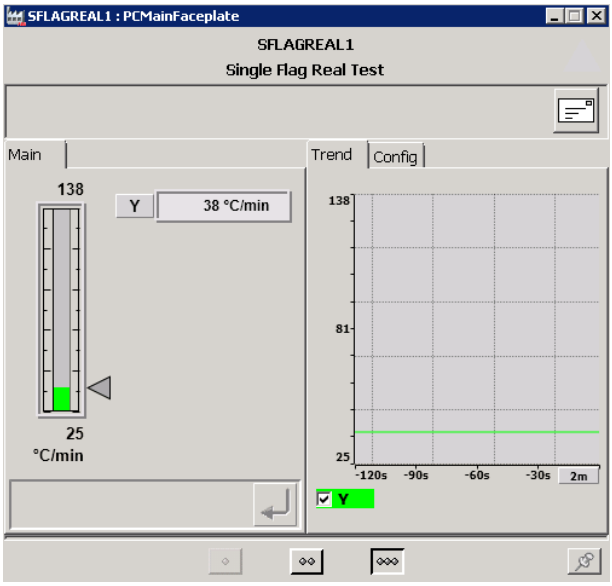


Figure: 7-1 Main View *Figure: 7-2 Extended View*

Basic information

Name:	PCMainFaceplate
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Single Flag Real
Library:	-
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 7-1 Basic Information

Layout

Parameter	Value
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal

Table: 7-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	0	0
MaxNoOfButtonPerRow	6	12

Table: 7-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_real_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_real_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	sflag_real_FE_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	sflag_real_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 7-4 Faceplate Aspect names

7.1 Faceplate elements

7.1.1 sflag_real_FE_Main PG2

This is the main view for the Single Flag Real object type faceplate. Operator input is possible and based on access rights to the signals.

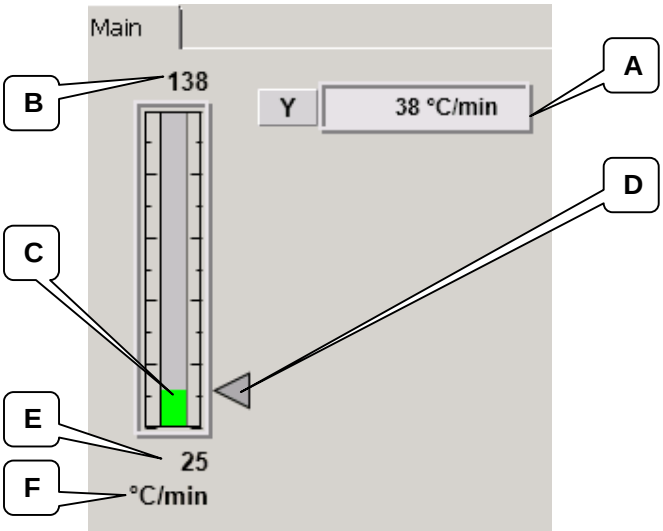


Figure: 7-3 Main Tab

ID	Comment	Property
A	Indication of real value	Y/SIG
B	Maximum range of real value	Y/HIGH
C	Bar graph presentation of real value, input possible	Y/SIG
D	Input of real value	Y/SIG
E	Minimum range of real value	Y/LOW
F	Unit string	Y/UNITS

Table: 7-5 Classic Faceplate Main tab Description

7.1.2 sflag_real_FE_Trend PG2

This is the trend view for the Single Flag Real object type faceplate.

.

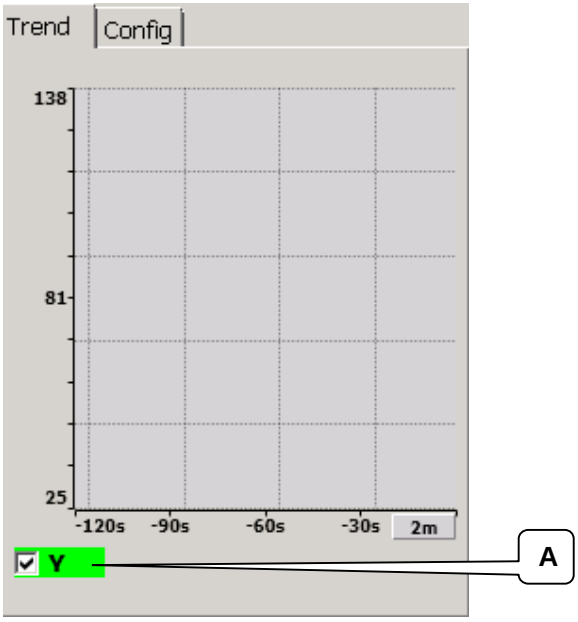


Figure: 7-4 Trend Tab

ID	Comment	Property
A	Indication of module output value (“Y” label)	Y/SIG

Table: 7-6 Classic Faceplate Trend tab Description

7.1.3 sflag_real_FE_Config PG2

Refer to 1.1.3 sflag_bool_FE_Config PG2

7.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	Y/SIG:Q=216	1	1	1
	Operator note available		-	-	10

Table: 7-7 Indicators

7.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	6	6	12

Table: 7-8 Aspect Links

7.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	6	6	12

Table: 7-9 Faceplate Buttons

7.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.

Property	Data type	Default value	Description
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 7-10 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG REAL

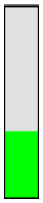
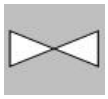
Example	Graphic Element Name	Description
	sflag_real_bargraph_PG2	Bargraph for real values
	sflag_real_valve_PG2	Mode icon Valve for real
	sflag_real_numeric_PG2	Indicator text box with numeric formatting displaying real
	sflag_real_numeric_op_PG2	Operable indicator text box with numeric formatting displaying real

Table: 7-11 Melody Single Flag Real GE

Human System Interface (High Performance Style)

8. SFLAG – Single Flag Boolean

Figure: 8-1 Main View

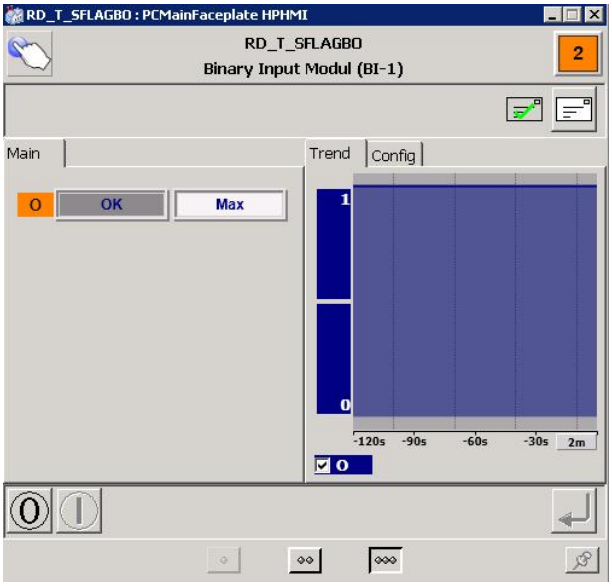


Figure: 8-2 Extended View

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Boolean
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 8-1 Basic Information

Layout

Parameter	Value
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 8-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 8-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_bool_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_bool_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_bool_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne
Ext	sflag_bool_FE_HPHMI_Config	2	NLSID_PC_Config	EveryOne

Table: 8-4 Faceplate Aspect names

8.1 Faceplate elements

8.1.1 sflag_bool_FE_HPHMI_Main

This is the main view for the Single Flag Boolean object type faceplate.

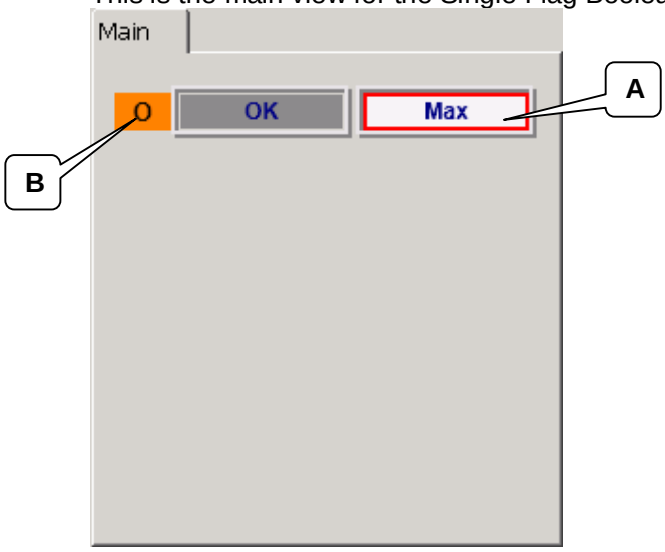


Figure: 8-3 Main Tab

ID	Comment	Property
A	Indication of binary state (white color means active state, red rectangle means alarm)	State: O/SIG Alarm: O/ALARM Texts: O/SIG0, O/SIG1
B	Fill color indicates active alarm	Alarm: O/ALARM Color: O/PRI

Table: 8-5 HPHMI Faceplate Main tab Description

8.1.2 sflag_bool_FE_HPHMI_Trend

This is the Trim curves view for the Single Flag Boolean object type faceplate.

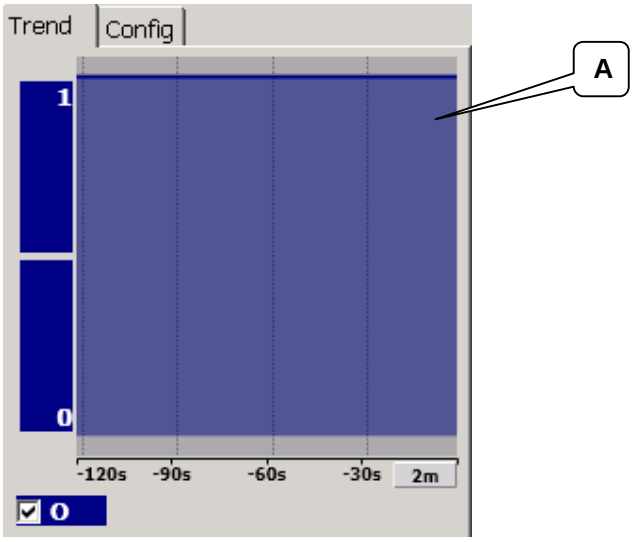


Figure: 8-4 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of module output value (“O” label)	O/SIG

Table: 8-6 HPHMI Faceplate Trend tab Description

8.1.3 sflag_bool_FE_HPHMI_Config

Operation Lock and Manual Inhibit Write Permissions

The Melody faceplates' configuration tab allows checking **Operation Lock** in order to inhibit operator inputs. All buttons will be grayed out. Refer to document 3BDA033456R51xx Installation and Configuration in order to change the default write permission.

There is no Operation Lock Functionality available for Single Flag types.

Manual Inhibit can be selected to manually inhibit all alarms of this Melody tag.

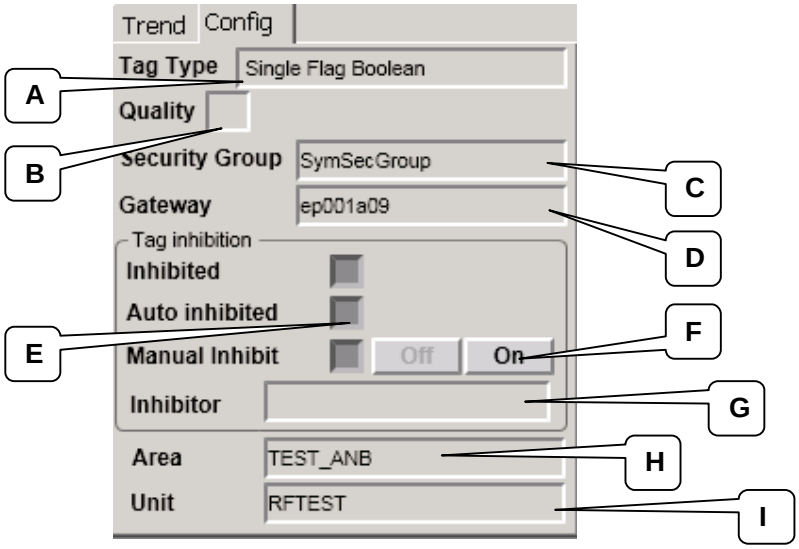


Figure: 8-5 HPHMI Faceplate Config Tab

ID	Comment	Property
A	Text describing the type of the tag	TYPE
B	Character which is providing Melody quality information	QUALITY
C	Text describing the Melody security group to which this tag belongs	SECNAME
D	Text describing the Melody gateway to which this tag belongs	GATEWAY
E	Binary indicators are showing inhibition status (white color = On)	INHB INHBAUTO INHBMAN
F	Buttons allow to manually inhibit the tag	INHBMAN
G	Information about inhibitor	INHBTAG
H	Text describing Melody area to which tag belongs	AREA
I	Text describing Melody unit to which tag belongs	UNIT

Table: 8-7 HPHMI Faceplate Config tab Description

8.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	O/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 8-8 Indicators

8.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 8-9 Aspect Links

8.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Set output to false	O/SIG (False)	-	1	1
	Set output to true	O/SIG (True)	-	2	2
	Apply the selected action	-	-	6	12

Table: 8-10 Faceplate Buttons

8.5 Graphic Elements

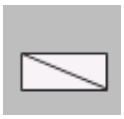
The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 8-11 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type Single Flag Boolean

Example	Graphic Element Name	Description
	sflag_bool_HPHMI_AlarmInd	Alarm indication
	sflag_bool_HPHMI_flap	Flap symbol based on binary signal O

Example	Graphic Element Name	Description
	sflag_bool_HPHMI_return	Return symbol based on binary signal O
	sflag_bool_HPHMI_text	Text indication based on binary signal O
	sflag_bool_HPHMI_ valve	Valve symbol based on binary signal O

Table: 8-12 Melody Single Flag Boolean GE

9. SFLAG – Single Flag Clock

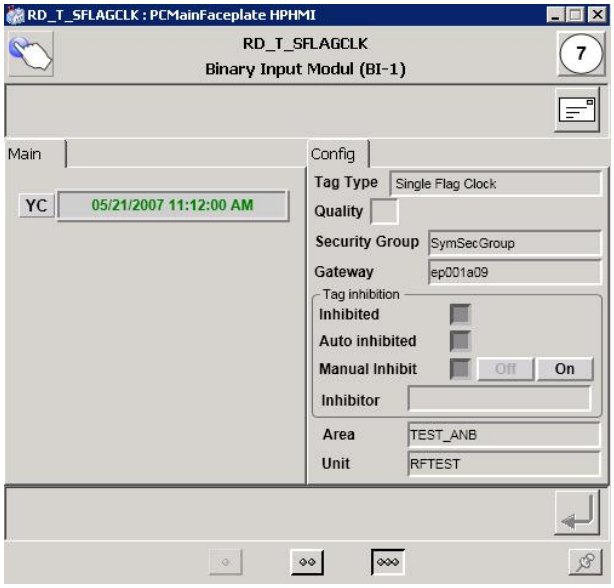


Figure: 9-1 Main View *Figure: 9-2 Extended View*

Basic information

Name:	**PCMainFaceplate HPHMI**
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Clock
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 9-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 9-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 9-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_clock_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_clock_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_clock_FE_HPHMI_Confi g	2	NLSID_PC_Config	EveryOne

Table: 9-4 Faceplate Aspect names

9.1 Faceplate Elements

9.1.1 sflag_clock_FE_HPHMI_Main

This is the main view for the Single Flag Clock object type faceplate. Operator input is possible and based on access rights to the signals.

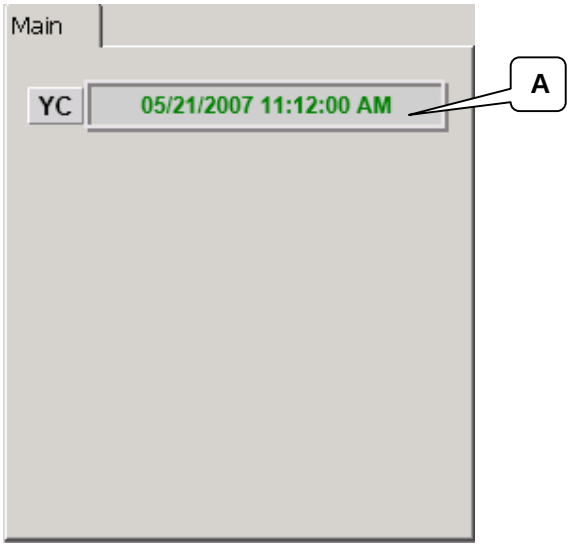


Figure: 9-3 Main Tab

ID	Comment	Property
A	Indication of time value	YC/SIG

Table: 9-5 Item Description

9.1.2 sflag_clock_FE_HPHMI_Config

Refer to 8.1.3 SFLAG – Single Flag Boolean

9.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YC/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 9-6 Indicators

9.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 9-7 Aspect Links

9.4 Faceplate Buttons

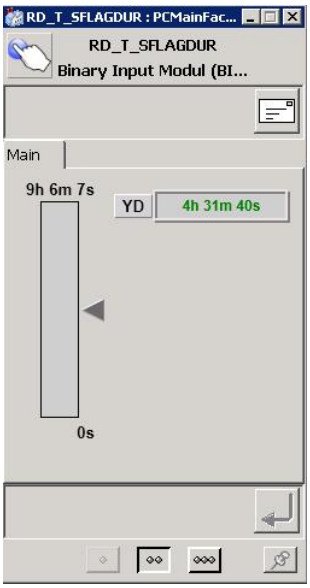
Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	-	6	12

Table: 9-8 Faceplate Buttons

9.5 Graphic Elements

There are no HPHMI graphic elements for this object type

10. SFLAG – Single Flag Duration



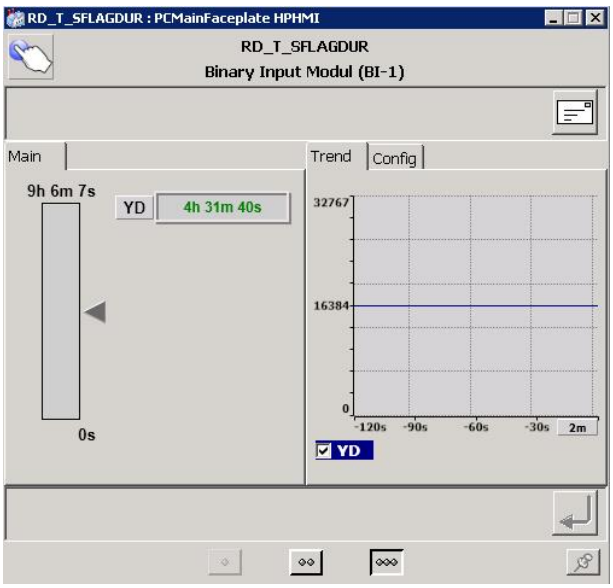


Figure: 10-1 Main View *Figure: 10-2 Extended View*

Basic information

Name:	**PCMainFaceplateHPHMI**
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Duration
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 10-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 10-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 10-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_duration_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_duration_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_duration_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne
Ext	sflag_duration_FE_HPHMI_Config	2	NLSID_PC_Config	EveryOne

Table: 10-4 Faceplate Aspect names

10.1 Faceplate elements

10.1.1 sflag_duration_FE_HPHMI_Main

This is the main view for the Single Flag Duration object type faceplate. Operator input is possible and based on access rights to the signals.

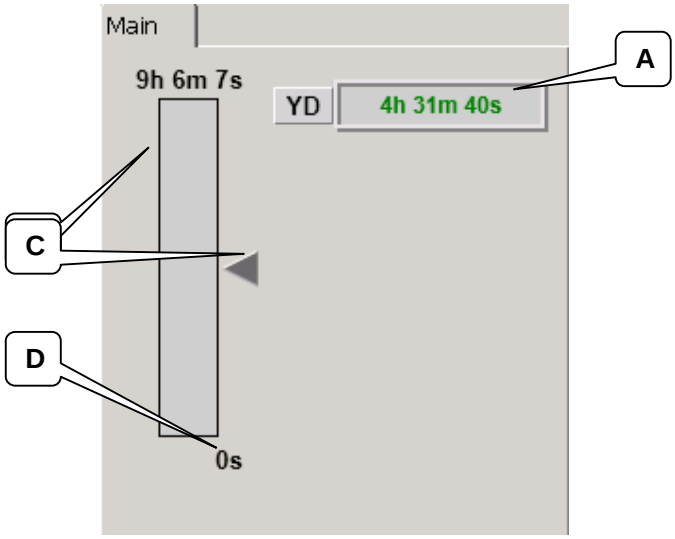


Figure: 10-3 Main Tab

ID	Comment	Property
A	Indication of time value	YD/SIG
B	Maximum range of time value	Constant: 9h 6m 7s
C	Bar graph presentation of time value	YD/SIG
D	Minimum range of time value	Constant: 0s

Table: 10-5 HPHMI Faceplate Main tab Description

10.1.2 sflag_duration_FE_HPHMI_Trend

This is the Trim curves view for the Single Flag Duration object type faceplate. The time value is presented as number of seconds.

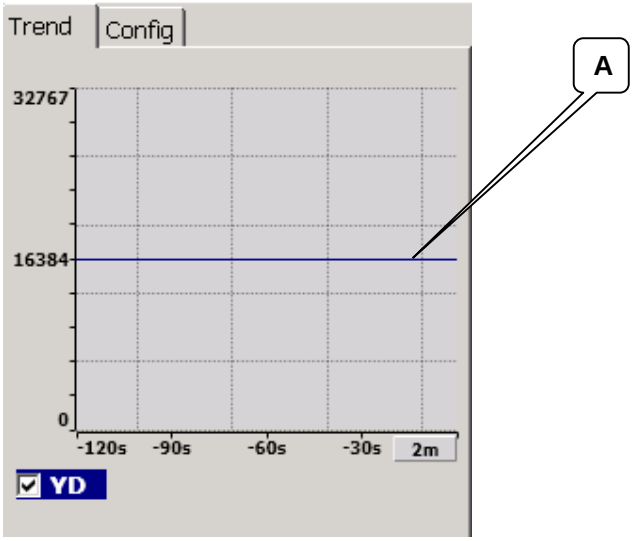


Figure: 10-4 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of module output value (“YD” label)	YD/SIG

Table: 10-6 HPHMI Faceplate Trend tab Description

10.1.3 sflag_duration_FE_HPHMI_Config

Refer to 8.1.3 SFLAG – Single Flag Boolean

10.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YD/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 10-7 Indicators

10.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 10-8 Aspect Links

10.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	-	6	12

Table: 10-9 Faceplate Buttons

10.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.

Property	Data type	Default value	Description
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

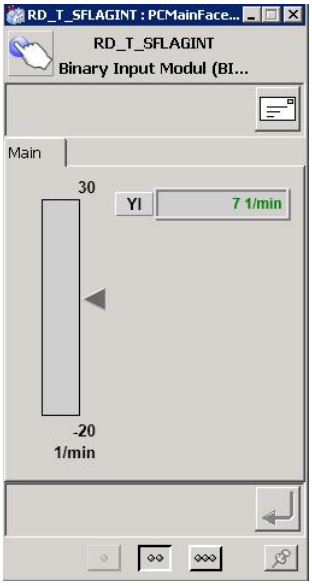
Table: 10-10 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG DURATION

Example	Graphic Element Name	Description
	sflag_duration_HPHMI_AlarmInd	Alarm indication
	sflag_duration_HPHMI_numeric	Numeric time indication of signal YD
	sflag_duration_HPHMI_numeric	Operable numeric time indication of signal YD

Table: 10-11 Melody Single Flag Duration GE

11. SFLAG – Single Flag Integer



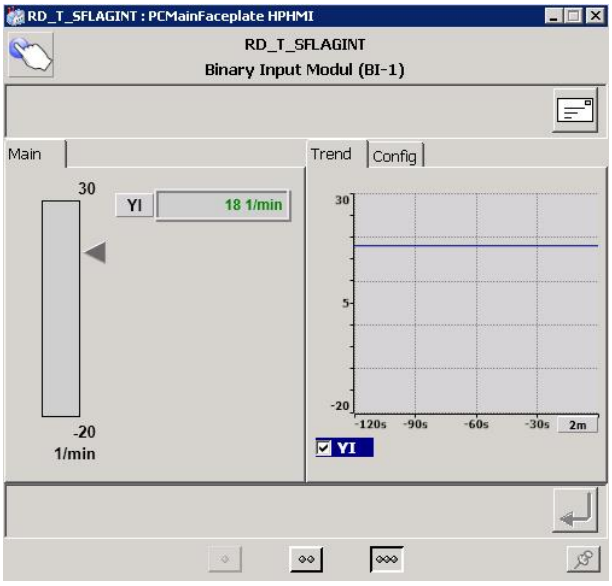


Figure: 11-1 Main View *Figure: 11-2 Extended View*

Basic information

Name:	**PCMainFaceplate HPHMI**
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Integer
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 11-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 11-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 11-3 Sizing Information

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_integer_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_integer_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_integer_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne
Ext	sflag_integer_FE_HPHMI_Config	2	NLSID_PC_Config	EveryOne

Table: 11-4 Faceplate Aspect names

11.1 Faceplate elements

11.1.1 sflag_integer_FE_HPHMI_Main

This is the main view for the Single Flag Integer object type faceplate. Operator input is possible and based on access rights to the signals.

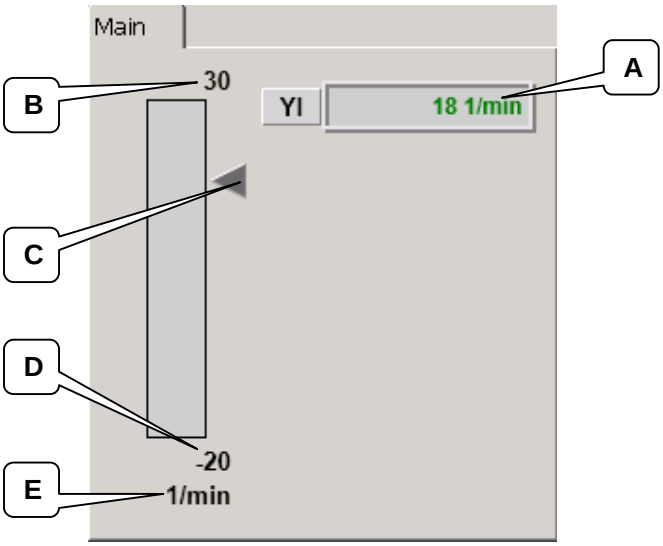


Figure: 11-3 Main Tab

ID	Comment	Property
A	Indication of integer value	YI/SIG
B	Maximum range of integer value	YI/HIGH
C	Bar graph presentation of time value, input possible	YI/SIG
D	Minimum range of integer value	YI/LOW
E	Minimum range of integer value	YI/UNITS

Table: 11-5 HPHMI Faceplate Main tab Description

11.1.2 sflag_integer_FE_HPHMI_Trend

This is the Trim curves view for the Single Flag Integer object type faceplate.

.

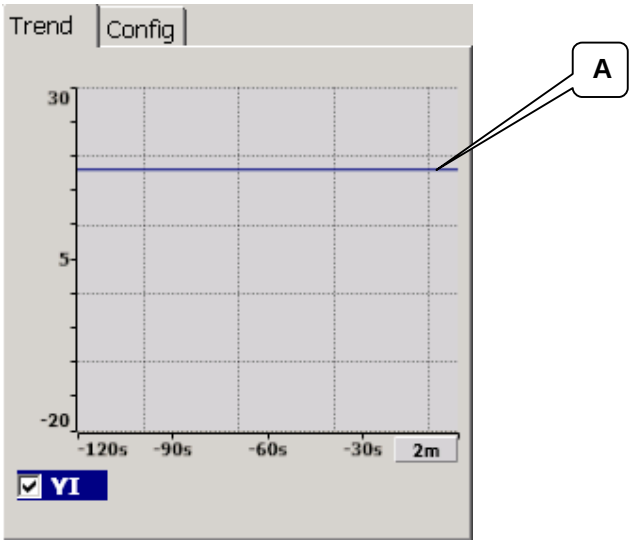


Figure: 11-4 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of module output value (“YI” label)	YI/SIG

Table: 11-6 HPHMI Faceplate Trend tab Description

11.1.3 sflag_integer_FE_HPHMI_Config

Refer to 8.1.3 SFLAG – Single Flag Boolean

11.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YI/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 11-7 Indicators

11.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 11-8 Aspect Links

11.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	-	6	12

Table: 11-9 Faceplate Buttons

11.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.

Property	Data type	Default value	Description
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 11-10 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG INTEGER

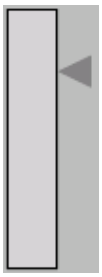
Example	Graphic Element Name	Description
	sflag_integer_HPHMI_AlarmInd	Alarm indication
	sflag_integer_HPHMI_bargraph	Bargraph indication of output integer value YI
	sflag_integer_HPHMI_numeric	Numeric indication of output integer value YI
	sflag_integer_valve	Valve symbol based on integer output value YI

Table: 11-11 Melody Single Flag Integer GE

12. SFLAG – Single Flag Long Duration

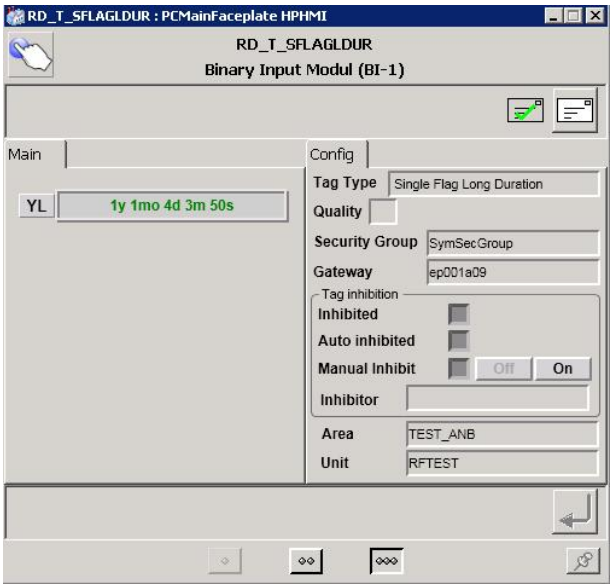


Figure: 12-1 Main View *Figure: 12-2 Extended View*

Basic information

Name:	**PCMainFaceplate HPHMI**
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Long Duration
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 12-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 12-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 12-3 Sizing Information

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_ld_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_ld_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_ld_FE_HPHMI_Confi g	2	NLSID_PC_Config	EveryOne

Table: 12-4 Faceplate Aspect names

12.1 Faceplate elements

12.1.1 sflag_ld_FE_HPHMI_Main

This is the main view for the Single Flag Long Duration object type faceplate. Operator input is possible and based on access rights to the signals.

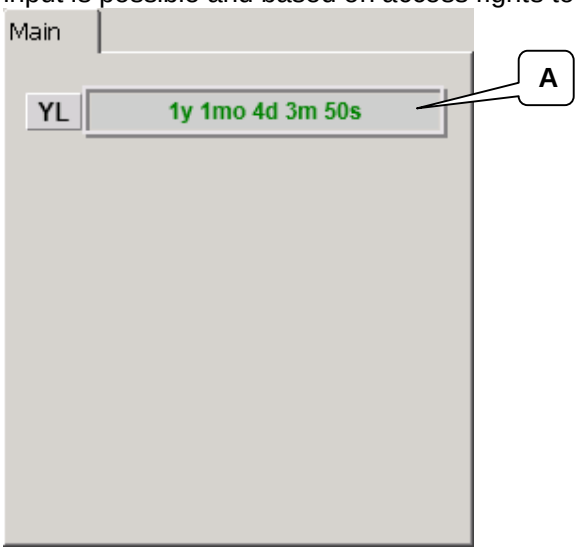


Figure: 12-3 Main Tab

ID	Comment	Property
A	Indication of time value	YL/SIG

Table: 12-5 HPHMI Faceplate Main tab Description

12.1.2 sflag_ld_FE_HPHMI_Config

Refer to 8.1.3 SFLAG – Single Flag Boolean

12.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	YL/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 12-6 Indicators

12.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 12-7 Aspect Links

12.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	-	6	12

Table: 12-8 Faceplate Buttons

12.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.
XPos	Float	-	X position of the upper left

Property	Data type	Default value	Description
			corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 12-9 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG LONG DURATION

Example	Graphic Element Name	Description
	sflag_ld_HPHMI_AlarmInd	Alarm indication
1y 01mo 04d 00h 03m 50s	sflag_ld_HPHMI_numeric	Numeric time indication of output value YL
1y 01mo 04d 00h 03m 50s	sflag_ld_HPHMI_numeric_op	Operable numeric time indication of output value YL

Table: 12-10 Melody Single Flag Long Duration GE

13. SFLAG – Single Flag Packed Boolean

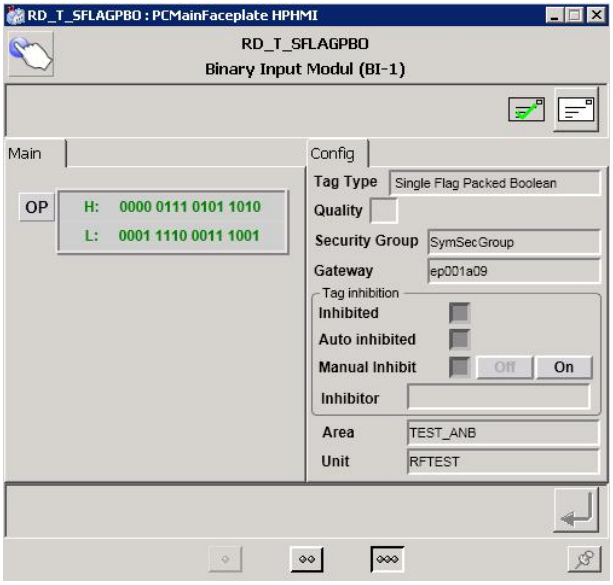


Figure: 13-1 Main View *Figure: 13-2 Extended View*

Basic information

Name:	**PCMainFaceplate HPHMI**
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Packed Boolean
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 13-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 13-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 13-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_pbool_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_pbool_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_pbool_FE_HPHMI_Config	2	NLSID_PC_Config	EveryOne

Table: 13-4 Faceplate Aspect names

13.1 Faceplate elements

13.1.1 sflag_pbool_FE_HPHMI_Main

This is the main view for the Single Flag Packed Boolean object type faceplate. Operator input is possible and based on access rights to the signals.

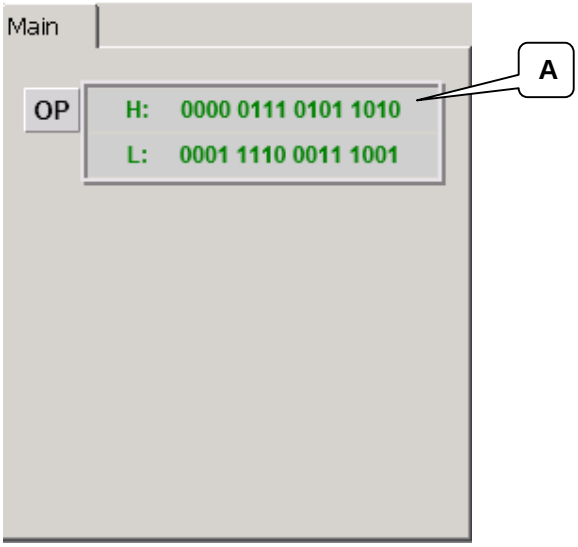


Figure: 13-3 Main Tab

ID	Comment	Property
A	Indication of packed boolean value – High and Low word	OP/SIG

Table: 13-5 HPHMI Faceplate Main tab Description

13.1.2 sflag_pbool_FE_HPHMI_Config

Refer to 8.1.3 SFLAG – Single Flag Boolean

13.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	OP/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 13-6 Indicators

13.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 13-7 Aspect Links

13.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	-	6	12

Table: 13-8 Faceplate Buttons

13.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in

Property	Data type	Default value	Description
			the graphic display.
XPos	Float	-	X position of the upper left corner of the element
YPos	Float	-	Y position of the upper left corner of the element

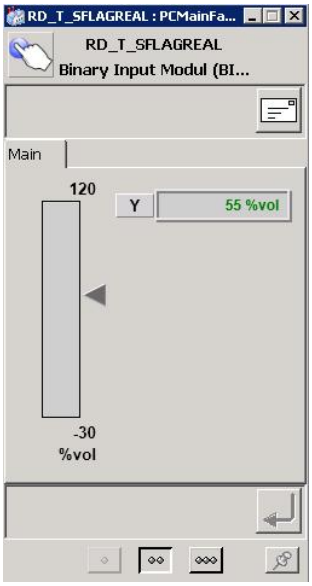
Table: 13-9 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG PACKED BOOLEAN

Example	Graphic Element Name	Description
	sflag_pbool_HPHMI_AlarmInd	Alarm indication
	sflag_pbool_HPHMI_text	Text indication (based on active bit of L word)

Table: 13-10 Melody Single Flag Packed Boolean GE

14. SFLAG – Single Flag Real



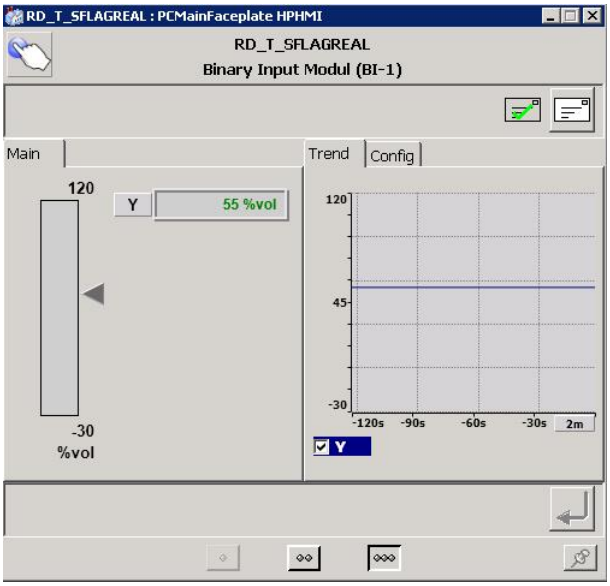


Figure: 14-1 Main View *Figure: 14-2 Extended View*

Basic information

Name:	**PCMainFaceplate HPHMI**
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Single Flag Real
Library:	PCHighPerformanceHMILib 1.0-0
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 14-1 Basic Information

Layout

Parameter	**Value**
Update rate (ms)	1000
Default view	Faceplate
Faceplate orientation	Horizontal
Reduced View	Not available

Table: 14-2 Layout information

Sizing information

Parameter in pixels	Main View	Ext. View
Width	250 px	500 px
Height	424 px	424 px
MaxNoOfIndicatorRows	1	1
MaxNoOfIndicatorsRerRow	6	12
MaxNoOfButtonRows	1	1
MaxNoOfButtonPerRow	6	12

Table: 14-3 Sizing Information

Indicator and button icons are displayed on dedicated positions. Position 1 is the upper left corner. Position 12 is the lower right corner. Position 0 is not shown.

Elements

View	Aspect	Tab	NLS-ID	User role
Main	sflag_real_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_real_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	sflag_real_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne
Ext	sflag_real_FE_HPHMI_Config	2	NLSID_PC_Config	EveryOne

Table: 14-4 Faceplate Aspect names

14.1 Faceplate elements

14.1.1 sflag_real_FE_HPHMI_Main

This is the main view for the Single Flag Real object type faceplate. Operator input is possible and based on access rights to the signals.

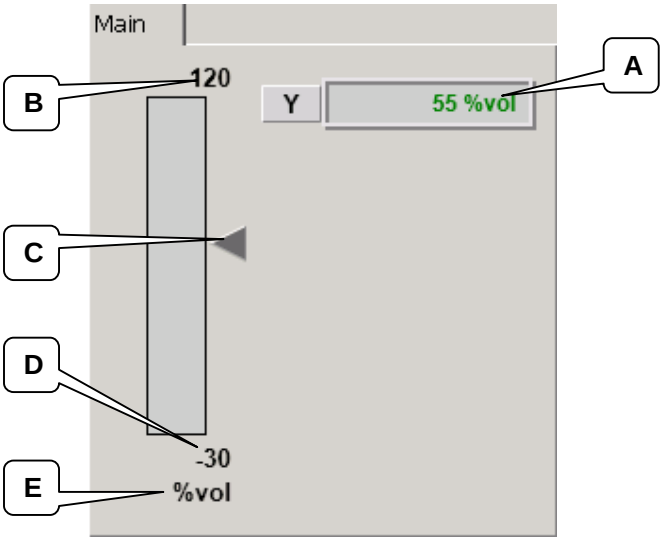


Figure: 14-3 Main Tab

ID	Comment	Property
A	Indication of real value	Y/SIG
B	Maximum range of real value	Y/HIGH
C	Bar graph presentation of real value, input possible	Y/SIG
D	Minimum range of real value	Y/LOW
E	Unit string	Y/UNITS

Table: 14-5 HPHMI Faceplate Main tab Description

14.1.2 sflag_real_FE_HPHMI_Trend

This is the Trim curves view for the Single Flag Real object type faceplate.

.

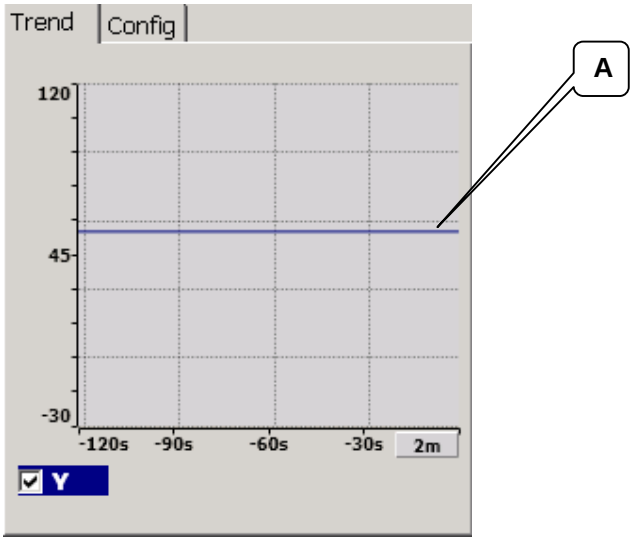


Figure: 14-4 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of module output value (“Y” label)	Y/SIG

Table: 14-6 HPHMI Faceplate Trend tab Description

14.1.3 sflag_real_FE_HPHMI_Config

Refer to 8.1.3 SFLAG – Single Flag Boolean

14.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	Y/SIG:Q=216	-	1	1
	Operator note available		-	-	10

Table: 14-7 Indicators

14.3 Aspect Links

Icon	Description	Aspect	Position		
			Red	FP	Ext
	Operator note	Operator note	-	6	12

Table: 14-8 Aspect Links

14.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Apply the selected action	-	-	6	12

Table: 14-9 Faceplate Buttons

14.5 Graphic Elements

The following Graphic Elements have the following standard properties and enumeration.

Standard properties

Property	Data type	Default value	Description
EnableInput	Boolean	True	Enables input handling of the element, if false the element it self can't selected.
Name	String	-	Name of the element instance in a graphic display. Is set automatically by the Graphics Builder (Name of the element + index).
Rotation	Rotation	0	Rotation angle
SubscriptionRate	Integer	0	Update rate for all properties subscribed for
Transform	Transform	Empty	Enables animation like scaling, moving and rotation. It is intended only for dynamic values.
Visible	Boolean	True	Visibility of the element in the graphic display.
XPos	Float	-	X position of the upper left

Property	Data type	Default value	Description
			corner of the element
YPos	Float	-	Y position of the upper left corner of the element

Table: 14-10 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type SINGLE FLAG REAL

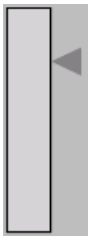
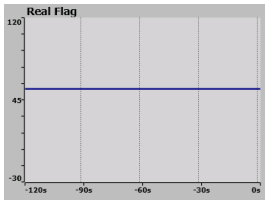
Example	Graphic Element Name	Description
	sflag_real_HPHMI_AlarmInd	Alarm indication
	sflag_real_HPHMI_bargraph	Bargraph indication of output signal Y
	sflag_real_HPHMI_numeric	Numeric indication of output signal Y
	sflag_real_HPHMI_trend	Trend indication of output signal Y
	sflag_real_HPHMI_valve	Valve symbol based on real output signal Y

Table: 14-11 Melody Single Flag Real GE

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