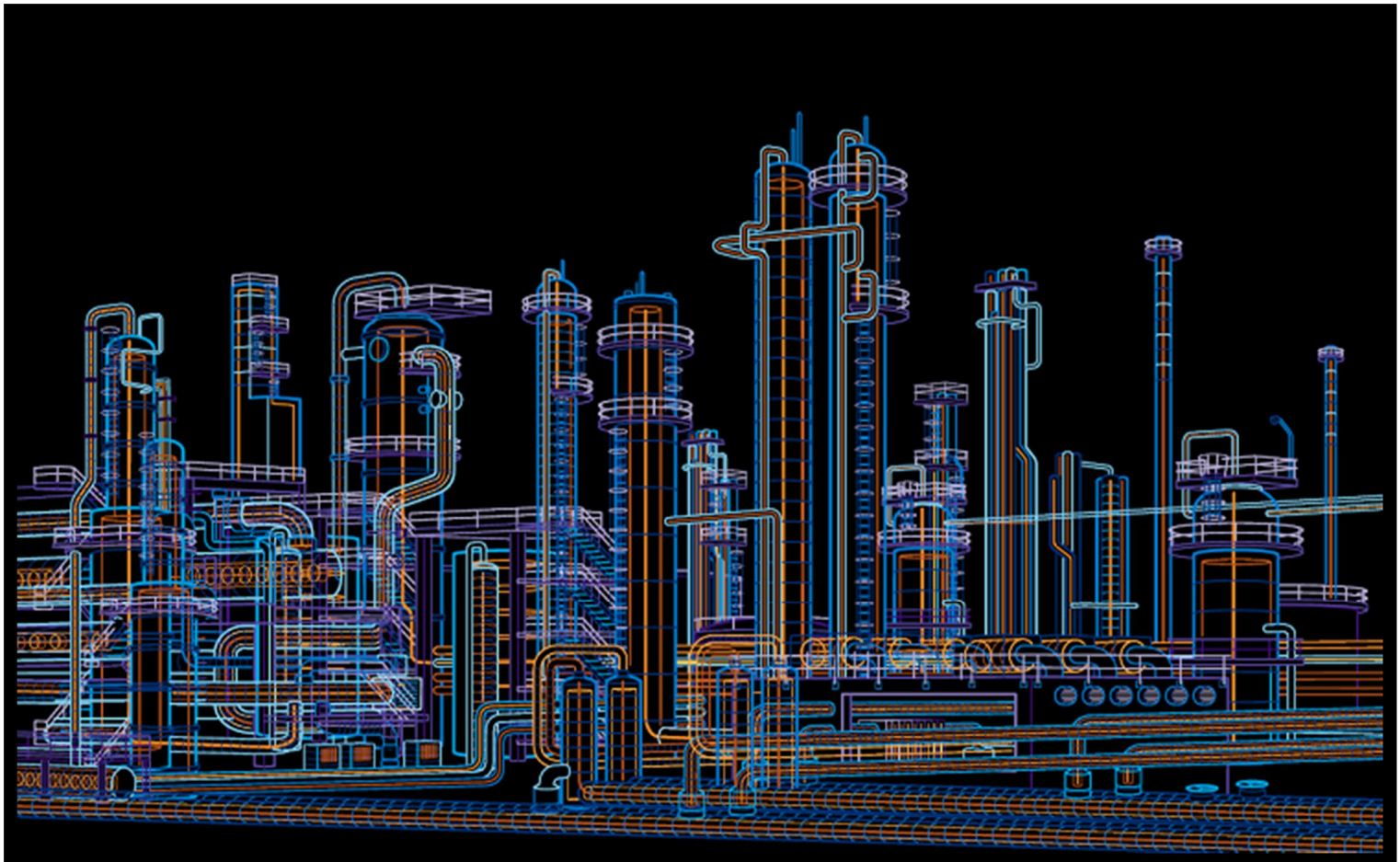

System 800xA
PC Toolkit Library for Melody
Human System Interface - Counter & Totalizer
User Manual

System Version 6.0

Power and productivity
for a better world™

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).

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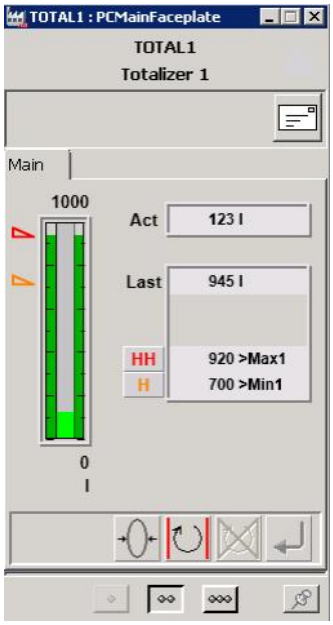
Human System Interface (Classic Style)

1. TOTAL - Totalizer



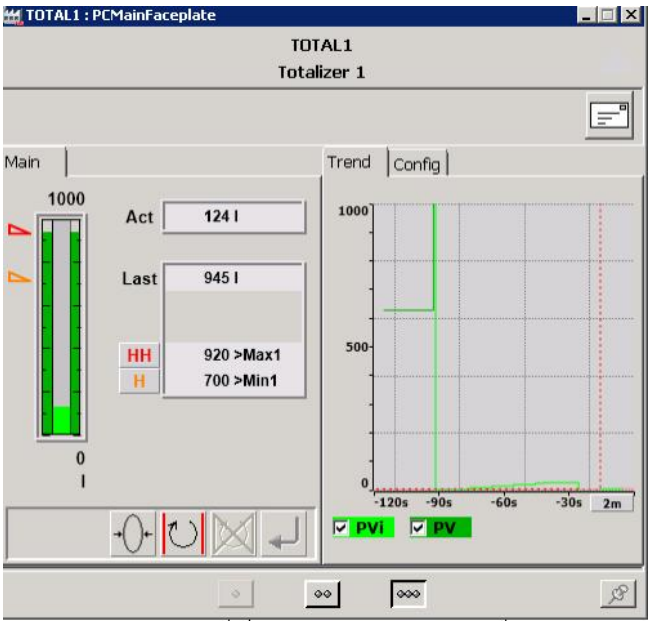


Figure: 1-1 Main View *Figure: 1-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Totalizer
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

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	totalizer_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	totalizer_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	totalizer_FE_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	totalizer_FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 1-4 Faceplate Aspect names

1.1 Faceplate elements

1.1.1 totalizer_FE_Main PG2

This is the main view for Totalizer object type faceplate. Operator input is possible based on access rights.

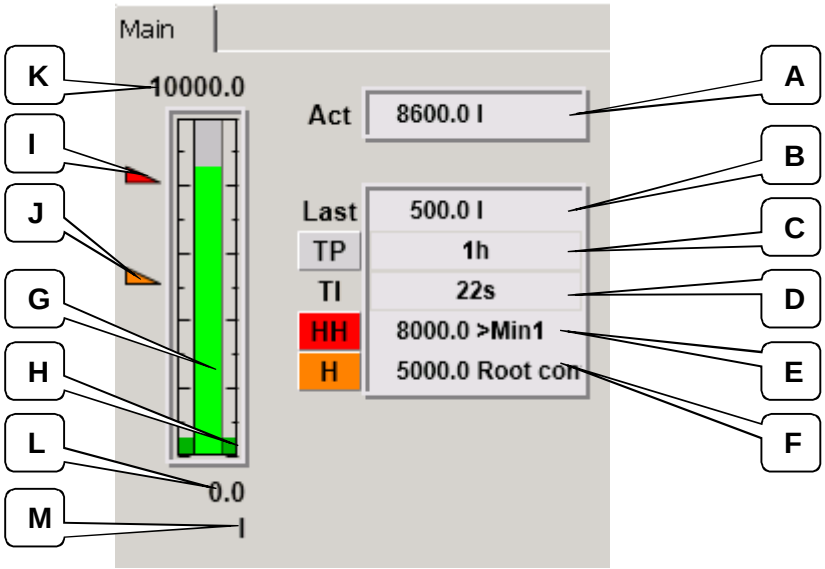


Figure: 1-3 Main Tab

ID	Comment	Property
A	Actual totalized value	QY/SIG
B	Previous totalized value	QOY/SIG
C	Period length	TPY/SIG
D	Execution interval for current period	TPA/SIG
E	High-high limit	AHHX/SIG
F	High limit	AHX/SIG
G	Actual totalized value	QY/SIG
H	Previous totalized value	QOY/SIG
I	High-high limit	AHHX/SIG
J	High limit	AHX/SIG
K	Max range for totalized value	QY/HIGH
L	Min range for totalized value	QY/LOW
M	Unit string for totalized value	QY/UNITS

Table: 1-5 Classic Faceplate Main tab Description

1.1.2 totalizer_FE_Trend PG2

This is the trend view for the Totalizer object type faceplate.

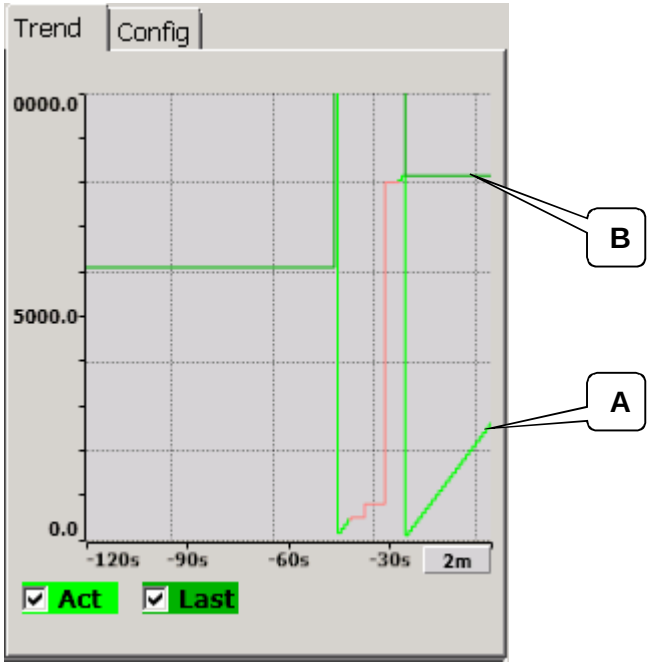


Figure: 1-4 Trend Tab

ID	Comment	Property
A	Actual totalized value (“Act”)	QY/SIG
B	Actual totalized value (“Last”)	QOY/SIG

Table: 1-6 Classic Faceplate Trend tab Description

1.1.3 totalizer_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.

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

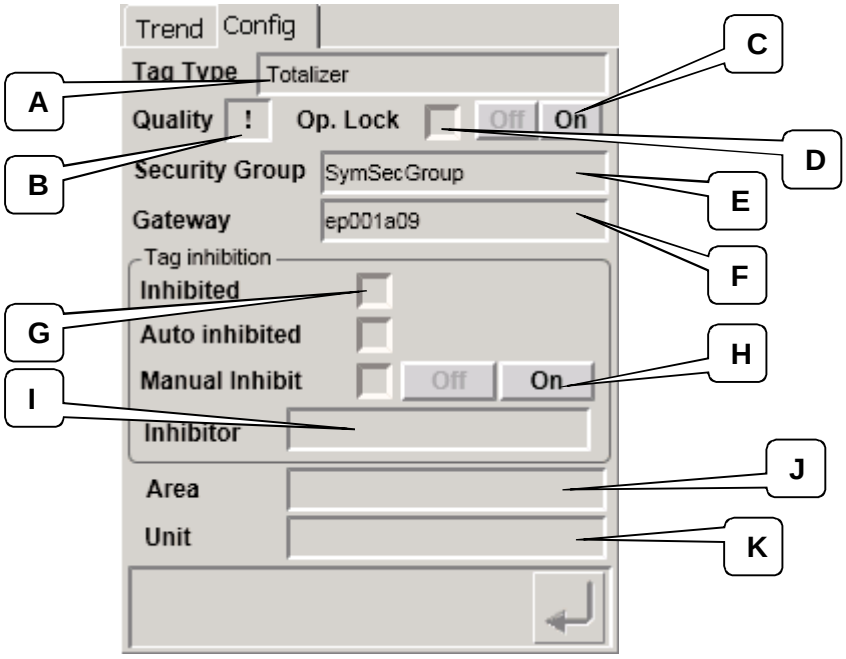


Figure: 1-5 Config Tab

ID	Comment	Property
A	Text describing the type of the tag	TYPE
B	Character which is providing Melody quality information	QUALITY
C	Buttons allow to switch Operating Lock on and off	On: AKO/SIG Off: AKOR/SIG
D	Binary indicator: Yellow color: Op. Lock is On Gray color: Op. Lock is Off	AKO/SIG
E	Text describing the Melody security group to which this tag belongs	SECNAME
F	Text describing the Melody gateway to which this tag belongs	GATEWAY
G	Binary indicators are showing inhibition status (Yellow color = On)	INHB INHBAUTO INHBMAN
H	Buttons allow to manually inhibit the tag	INHBMAN

ID	Comment	Property
I	Information about inhibitor	INHBTAG
J	Text describing Melody area to which tag belongs	AREA
K	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
	Simulated	ATO/SIG	1	1	1
	Forced	QY/SIG:Q'=216	1	1	1
	Alarm disabled	(AHY/ALI<>"" and AHN/SIG and AHY/EN) or (AHHY/ALI<>"" and AHHN/SIG and AHHY/EN)	2	2	2
	Operator lock	AKO/SIG	5	5	10
	Operator note available		-	-	11

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
	Reset	QOR/SIG	3	3	3
	Switch to alternative value	ATO/SIG	4	4	4
	Switch from alternative value to normal value	ATOR/SIG	5	5	5
	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

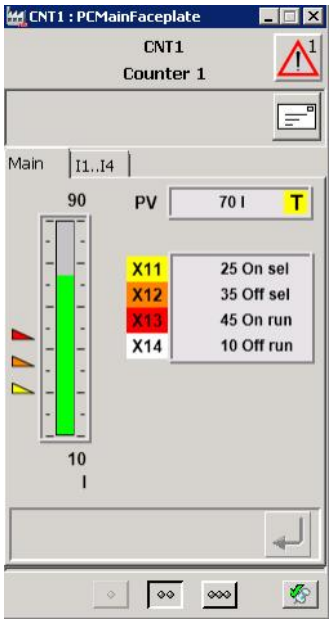
Graphic Elements based on Melody object type Totalizer

Example	Graphic Element Name	Description
	totalizer_qoy_bargraph_PG2	Bargraph for the end value of the last completed period.

Example	Graphic Element Name	Description
	totalizer_qy_bargraph_PG2	Bargraph for the interim value of the actual period.
	totalizer_qoy_numeric_PG2	Indicator text box with numeric formatting displaying the end value of the last completed period.
	totalizer_qy_numeric_PG2	Indicator text box with numeric formatting displaying the interim value of the actual period.

Table 1-1: Melody Totalizer GE

2. CNT - Counter



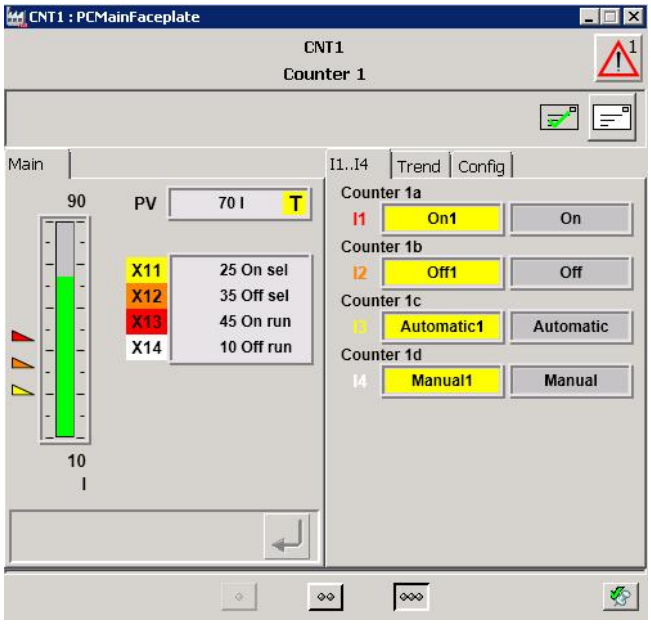


Figure: 2-1 Main View *Figure: 2-2 Extended View*

Basic information

Name:	**PCMainFaceplate**
Description:	PC MainFaceplate
Connect type:	Melody AC870P
Object type:	Counter
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

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	cnt_FE_Main PG2	1	NLSID_PC_Main	EveryOne
Main	cnt_FE_Binary PG2	1	NLSID_PC_I1_I4	EveryOne
Ext	cnt _FE_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	cnt_FE_BinaryExt PG2	1	NLSID_PC_I1_I4	EveryOne
Ext	cnt _FE_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	cnt _FE_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 2-4 Faceplate Aspect names

2.1 Faceplate elements

2.1.1 cnt_FE_Main PG2

This is the main view for Counter object type faceplate. Operator input is not possible. Four limit values are presented (X11 to X14 signals). Alarm state for each limit is provided from I11 to I14 signals.

Note: only limits X11, X12, X13 are showed on bar graph indication

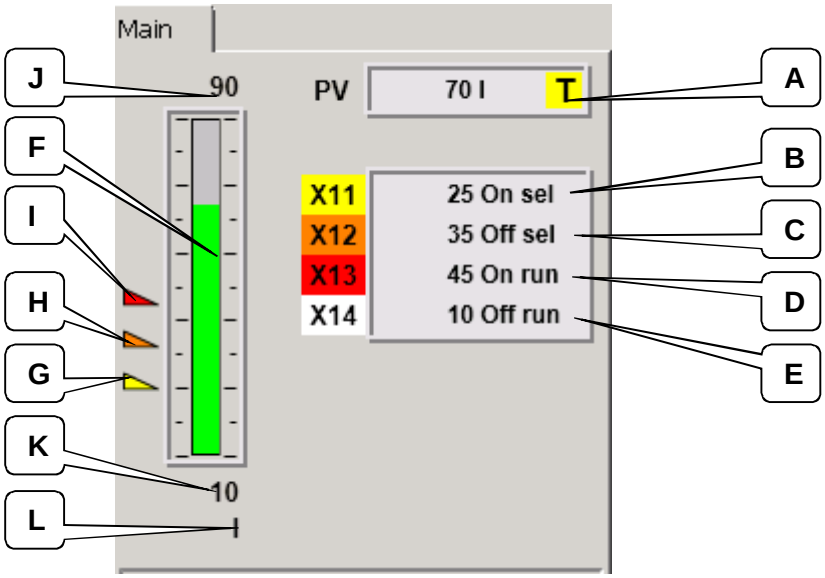


Figure: 2-3 Main Tab

ID	Comment	Property
A	Actual counter value	XI/SIG
B	Limit X11	Value: X11/SIG Alarm state: I11/SIG
C	Limit X12	Value: X12/SIG Alarm state: I12/SIG
D	Limit X13	Value: X13/SIG Alarm state: I13/SIG
E	Limit X14	Value: X14/SIG Alarm state: I14/SIG
F	Actual counter value	XI/SIG
G	Limit X11	Value: X11/SIG Alarm state: I11/SIG
H	Limit X12	Value: X12/SIG Alarm state: I12/SIG
I	Limit X13	Value: X13/SIG Alarm state: I13/SIG
J	Max range for counter value	XI/HIGH
K	Min range for totalized value	XI/LOW

ID	Comment	Property
L	Unit string for totalized value	XI/UNITS

Table: 2-5 Classic Faceplate Main tab Description

2.1.2 cnt_FE_Binary PG2

This is the Binary inputs view for the Counter object type faceplate.

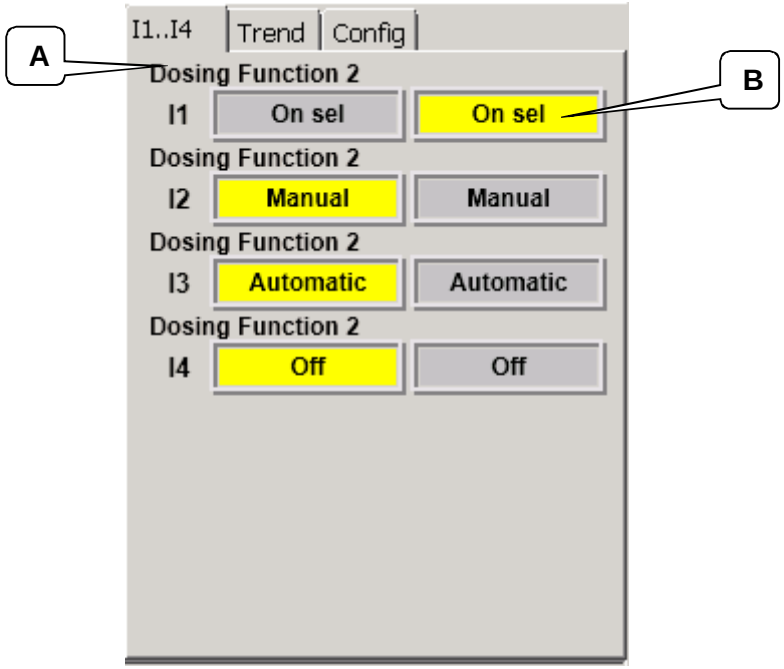


Figure: 2-4 Classic Faceplate Binary Tab

ID	Comment	Property
A	Description of binary input number ***X***	I***X***/DESCRIPTION
B	State of binary input number ***X***	I***X***/SIG

Table: 2-6 Classic Faceplate Binary tab Description

2.1.3 cnt_FE_Trend PG2

This is the trend view for the Counter object type faceplate. Actual counter value is presented.

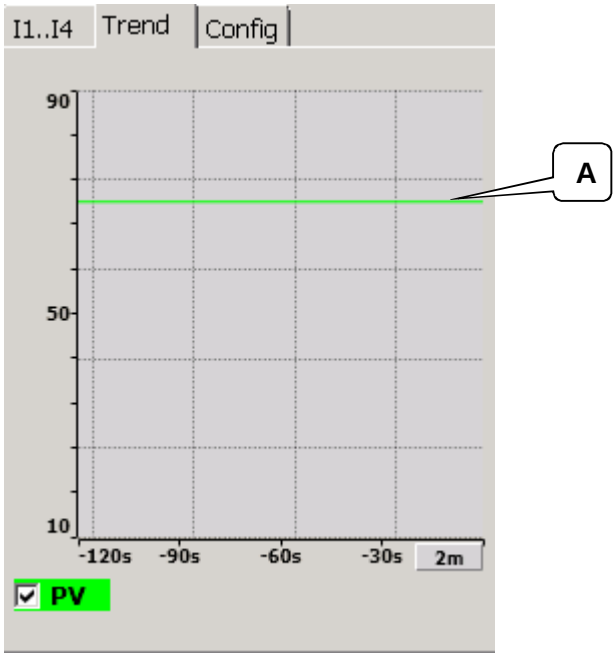


Figure: 2-5 Trend Tab

ID	Comment	Property
A	Actual counter value (“PV”)	XI/SIG

Table: 2-7 Classic Faceplate Trend tab Description

2.1.4 cnt_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.

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

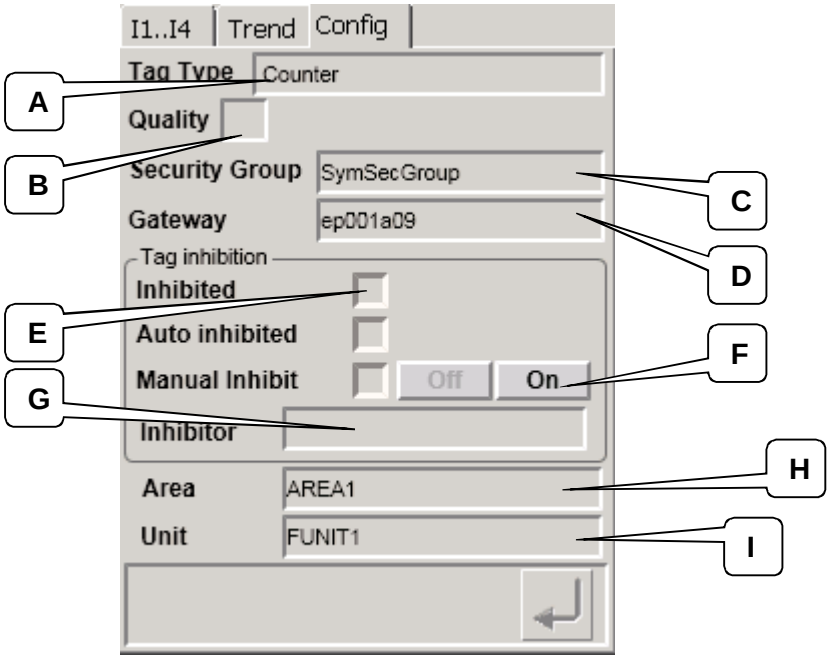


Figure: 2-6 Config Tab

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 (Yellow 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: 2-8 Classic Faceplate Config tab Description

2.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	'XI/SIG:Q'=216	-	1	1
	Operator note available		-	-	11

Table: 2-9 Indicators

2.3 Aspect Links

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

Table: 2-10 Aspect Links

2.4 Faceplate Buttons

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

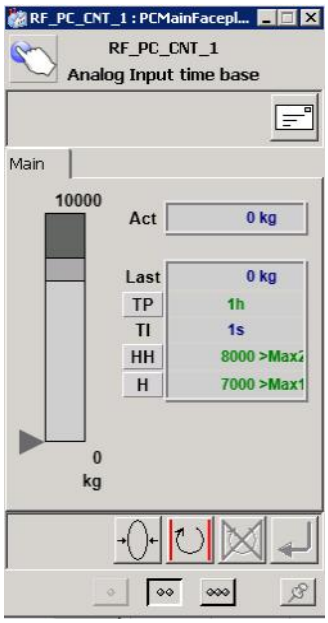
Table: 2-11 Faceplate Buttons

2.5 Graphic Elements

There are no graphic elements for this object type.

Human System Interface (High Performance Style)

3. TOTAL - Totalizer



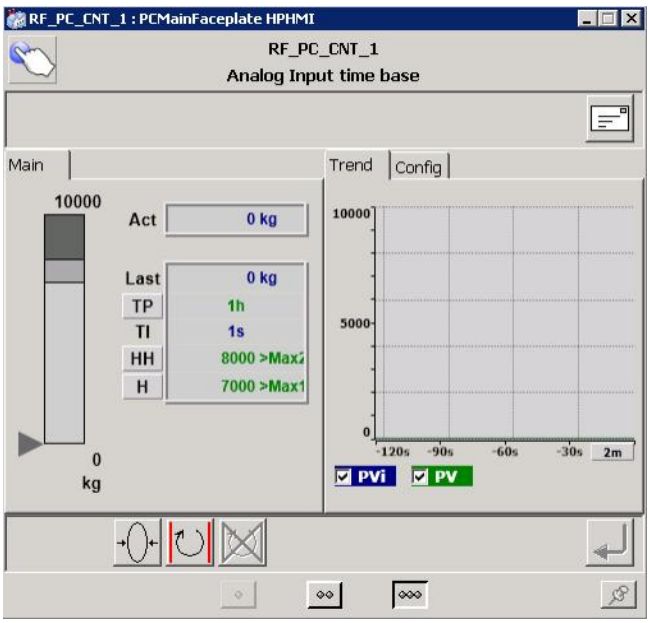


Figure: 3-1 Main View *Figure: 3-2 Extended View*

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Totalizer
Library:	PCHighPerformanceHMILib 1.0-0
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
Reduced View	Not available

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	1	1
MaxNoOfButtonPerRow	6	12

Table: 3-3 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	totalizer_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	totalizer_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	totalizer_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne
Ext	totalizer_FE_HPHMI_Config	2	NLSID_PC_Config	EveryOne

Table: 3-4 Faceplate Aspect names

3.1 Faceplate elements

3.1.1 totalizer_FE_HPHMI_Main

This is the main view for Totalizer object type faceplate. Operator input is possible based on access rights.

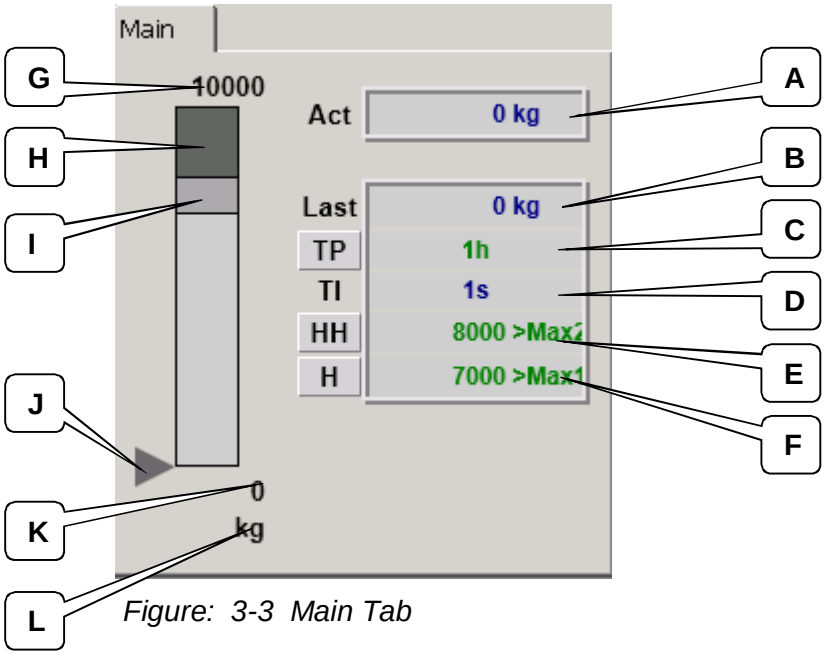


Figure: 3-3 Main Tab

ID	Comment	Property
A	Actual totalized value	QY/SIG
B	Previous totalized value	QOY/SIG
C	Period length	TPY/SIG
D	Execution interval for current period	TPA/SIG
E	High-high limit	AHHX/SIG
F	High limit	AHX/SIG
G	Max range for totalized value	QY/HIGH
H	High-high limit	AHHX/SIG
I	High limit	AHX/SIG
J	Actual totalized value	QY/SIG
K	Min range for totalized value	QY/LOW
L	Unit string for totalized value	QY/UNITS

Table: 3-5 HPHMI Faceplate Main tab Description

3.1.2 totalizer_FE_HPHMI_Trend

This is the trend view for the Totalizer object type faceplate.

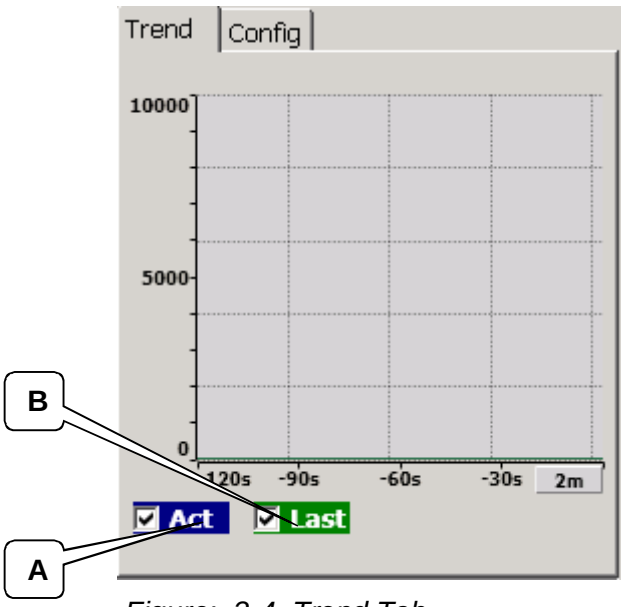


Figure: 3-4 Trend Tab

ID	Comment	Property
A	Actual totalized value (“Act”)	QY/SIG
B	Actual totalized value (“Last”)	QOY/SIG

Table: 3-6 HPHMI Faceplate Trend tab Description

3.1.3 totalizer_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.

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

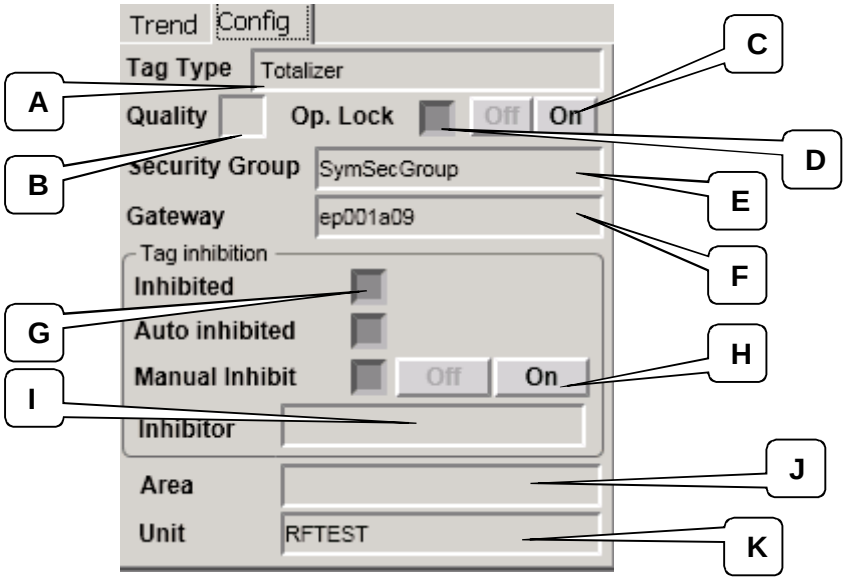


Figure: 3-5 HPHMI Faceplate Config Tab

ID	Comment	Property
A	Text describing the type of the tag	TYPE
B	Character which is providing Melody quality information	QUALITY
C	Buttons allow to switch Operating Lock on and off	On: AKO/SIG Off: AKOR/SIG
D	Binary indicator White color: Op. Lock is On Gray color: Op. Lock is Off	AKO/SIG
E	Text describing the Melody security group to which this tag belongs	SECNAME
F	Text describing the Melody gateway to which this tag belongs	GATEWAY
G	Binary indicators are showing inhibition status (white color = On)	INHB INHBAUTO INHBMAN
H	Buttons allow to manually inhibit the tag	INHBMAN
I	Information about inhibitor	INHBTAG

ID	Comment	Property
J	Text describing Melody area to which tag belongs	AREA
K	Text describing Melody unit to which tag belongs	UNIT

Table: 3-7 HPHMI Faceplate Config tab Description

3.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Simulated	ATO/SIG	-	1	1
	Forced	QY/SIG:Q'=216	-	1	1
	Alarm disabled	(AHY/ALI<>"" and AHN/SIG and AHY/EN) or (AHHY/ALI<>"" and AHHN/SIG and AHHY/EN)	-	2	2
	Operator lock	AKO/SIG	-	5	10
	Operator note available		-	-	11

Table: 3-8 Indicators

3.3 Aspect Links

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

Table: 3-9 Aspect Links

3.4 Faceplate Buttons

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Reset	QOR/SIG	-	3	3
	Switch to alternative value	ATO/SIG	-	4	4
	Switch from alternative value to normal value	ATOR/SIG	-	5	5

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

Table: 3-10 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.
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: 3-11 Standard Properties for all Graphic Elements

Graphic Elements based on Melody object type Totalizer

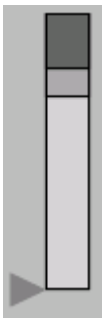
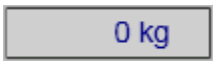
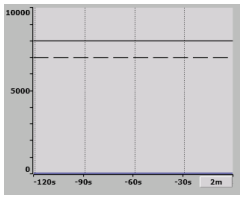
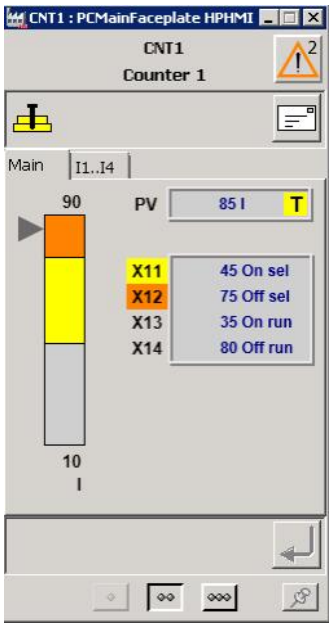
Example	Graphic Element Name	Description
	totalizer_HPHMI_AlarmInd	Alarm indication
	totalizer_HPHMI_ bargraph	Bargraph indication
	totalizer_HPHMI_qoy_numeric	Numeric indication last totalized value (signal QOY)
	totalizer_HPHMI_qy_numeric	Numeric indication totalized value (signal QY)
	totalizer_HPHMI_qy_trend	Trend indication of totalized value (signal QY)

Table 3-1: Melody Totalizer GE

4. CNT - Counter



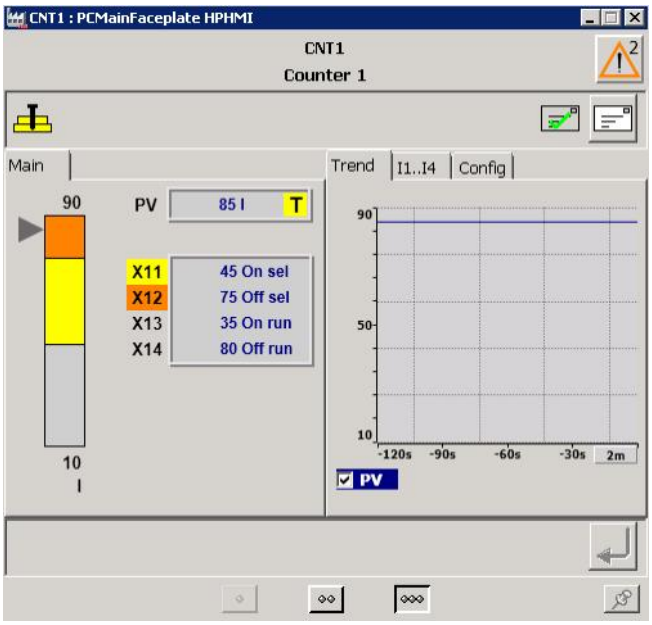


Figure: 4-1 Main View *Figure: 4-2 Extended View*

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Melody AC870P
Object type:	Counter
Library:	PCHighPerformanceHMILib 1.0-0
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

Parameter in pixels	Main View	Ext. View
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	cnt_FE_HPHMI_Main PG2	1	NLSID_PC_Main	EveryOne
Main	cnt_FE_HPHMI_Binary PG2	1	NLSID_PC_I1_I4	EveryOne
Ext	cnt_FE_HPHMI_Main PG2	1	NLSID_PC_Main	EveryOne
Ext	cnt_FE_HPHMI_BinaryExt PG2	1	NLSID_PC_I1_I4	EveryOne
Ext	cnt_FE_HPHMI_Trend PG2	2	NLSID_PC_Trend	EveryOne
Ext	cnt_FE_HPHMI_Config PG2	2	NLSID_PC_Config	EveryOne

Table: 4-4 Faceplate Aspect names

4.1 Faceplate elements

4.1.1 cnt_FE_HPHMI_Main PG2

This is the main view for Counter object type faceplate. Operator input is not possible. Four limit values are presented (X11 to X14 signals). Alarm state for each limit is provided from I11 to I14 signals.

Note: only limits X11, X12 are showed on bar graph indication

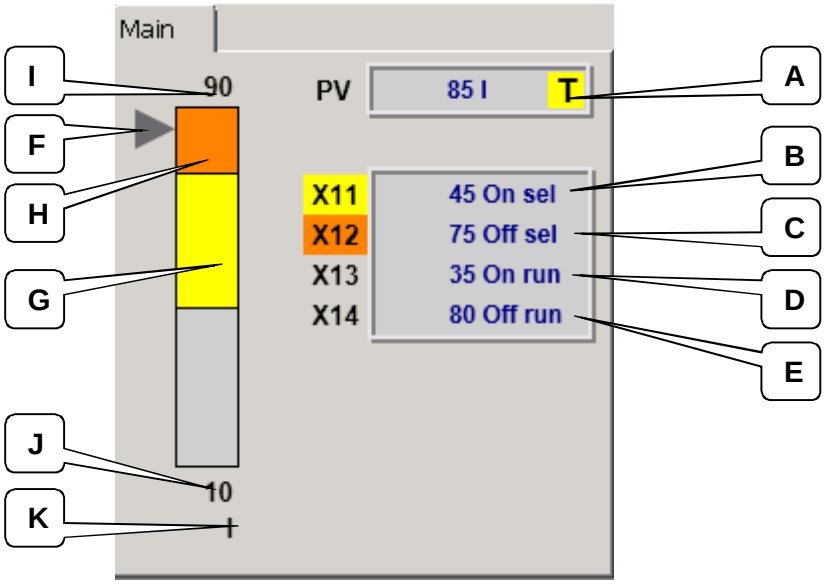


Figure: 4-3 HPHMI Faceplate Main Tab

ID	Comment	Property
A	Actual counter value	XI/SIG
B	Limit X11	Value: X11/SIG Alarm state: I11/SIG
C	Limit X12	Value: X12/SIG Alarm state: I12/SIG
D	Limit X13	Value: X13/SIG Alarm state: I13/SIG
E	Limit X14	Value: X14/SIG Alarm state: I14/SIG
F	Actual counter value	XI/SIG
G	Limit X11	Value: X11/SIG Alarm state: I11/SIG
H	Limit X12	Value: X12/SIG Alarm state: I12/SIG
I	Max range for counter value	XI/HIGH
J	Min range for totalized value	XI/LOW
K	Unit string for totalized value	XI/UNITS

Table: 4-5 HPHMI Faceplate Main tab Description

4.1.2 cnt_FE_HPHMI_Binary PG2

This is the Binary inputs view for the Counter object type faceplate.

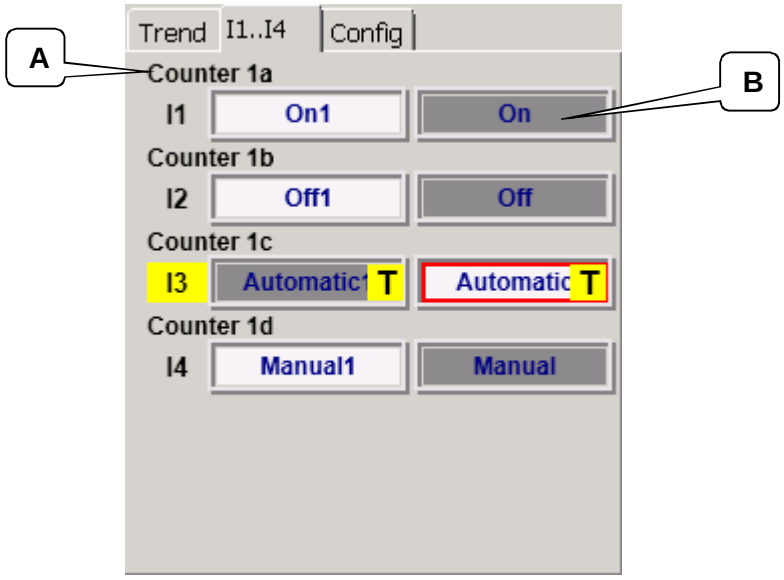


Figure: 4-4 HPHMI Faceplate Binary Tab

ID	Comment	Property
A	Description of binary input number ***X***	I***X***/DESCRIPTION
B	State of binary input number ***X***	I***X***/SIG

Table: 4-6 HPHMI Faceplate Binary tab Description

4.1.3 cnt_FE_HPHMI_Trend PG2

This is the trend view for the Counter object type faceplate. Actual counter value is presented.

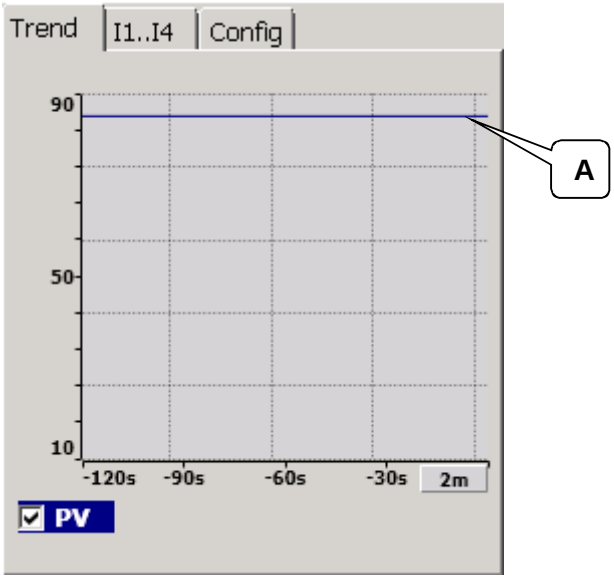


Figure: 4-5 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Actual counter value (“PV”)	XI/SIG

Table: 4-7 HPHMI Faceplate Trend tab Description

4.1.4 cnt_FE_HPHMI_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.

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

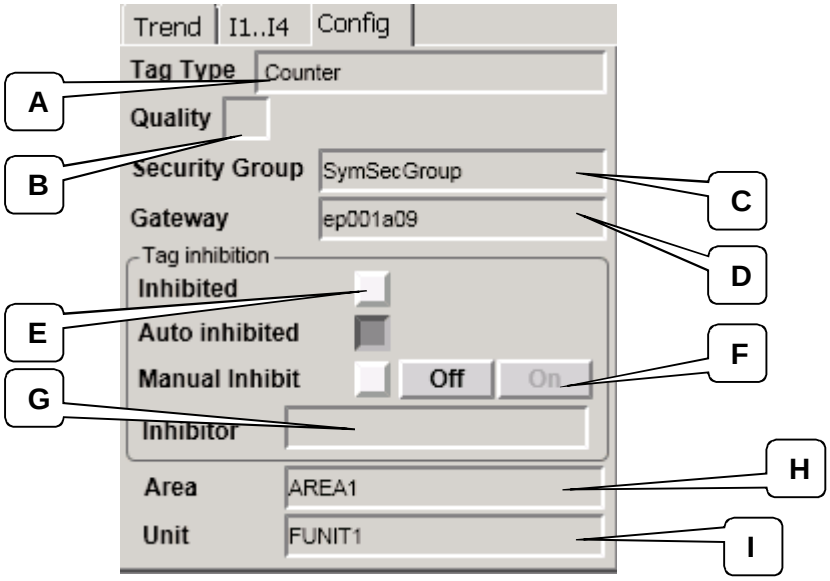


Figure: 4-6 HPHMI Faceplate Config Tab

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 (Yellow 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: 4-8 HPHMI Faceplate Config tab Description

4.2 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Forced	'XI/SIG:Q'=216	-	1	1
	Operator note available		-	-	11

Table: 4-9 Indicators

4.3 Aspect Links

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

Table: 4-10 Aspect Links

4.4 Faceplate Buttons

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

Table: 4-11 Faceplate Buttons

4.5 Graphic Elements

There are no graphic elements for this object type.

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