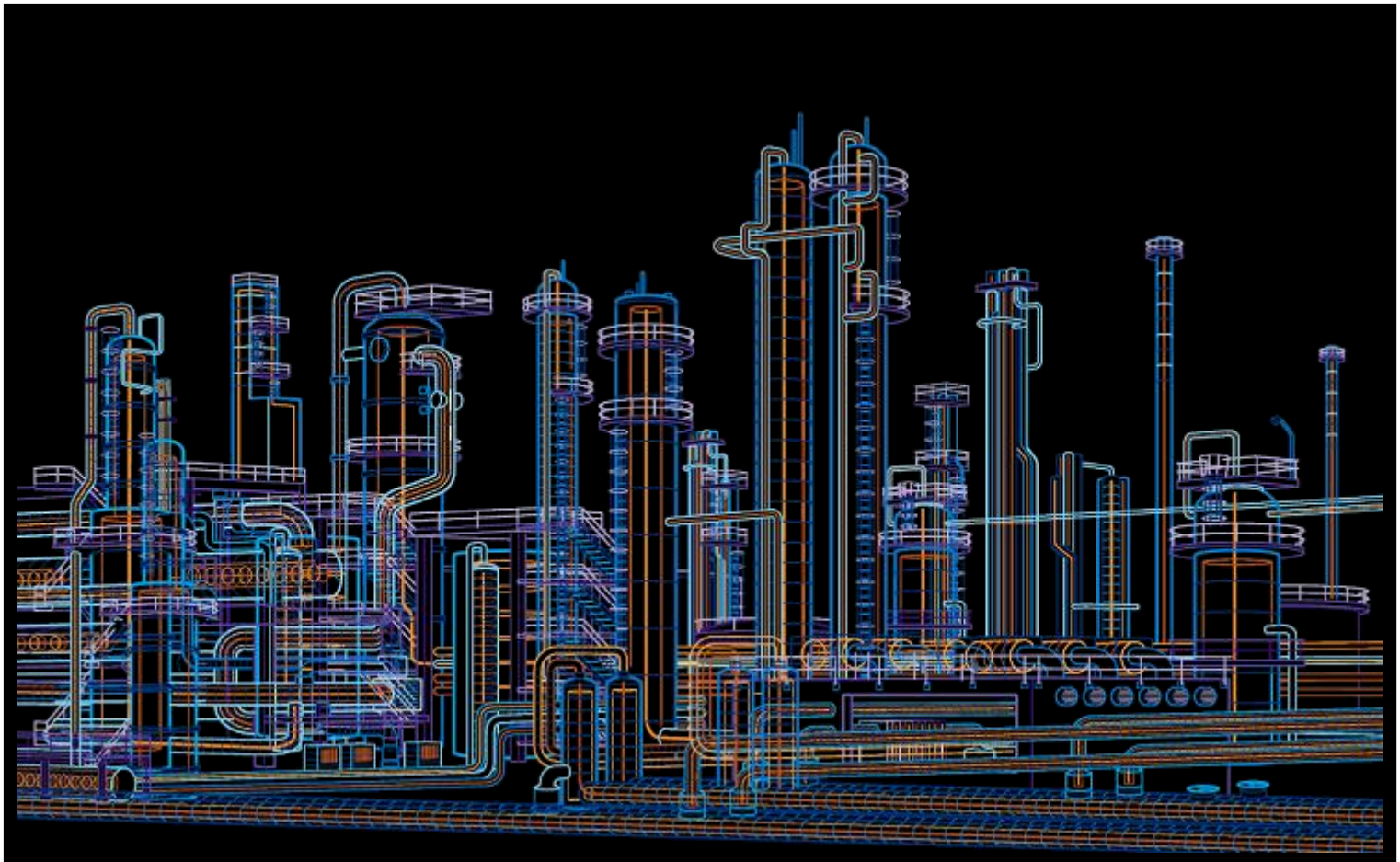

# System 800xA
# PC Toolkit Library for Melody
# Human System Interface - Counter & Totalizer
# User Manual

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.

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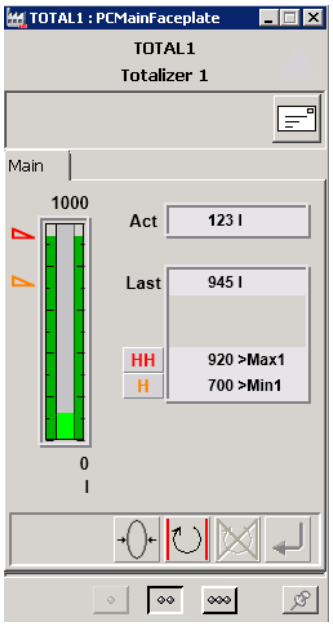
# Human System Interface (Classic Style)

## 1. TOTAL - Totalizer



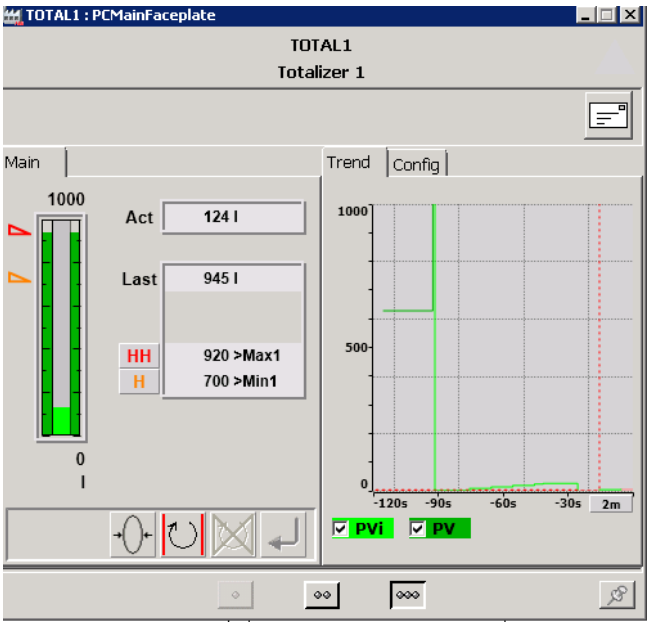




*Figure: 1-1 Main View* *Figure: 1-2 Extended View*

### 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.

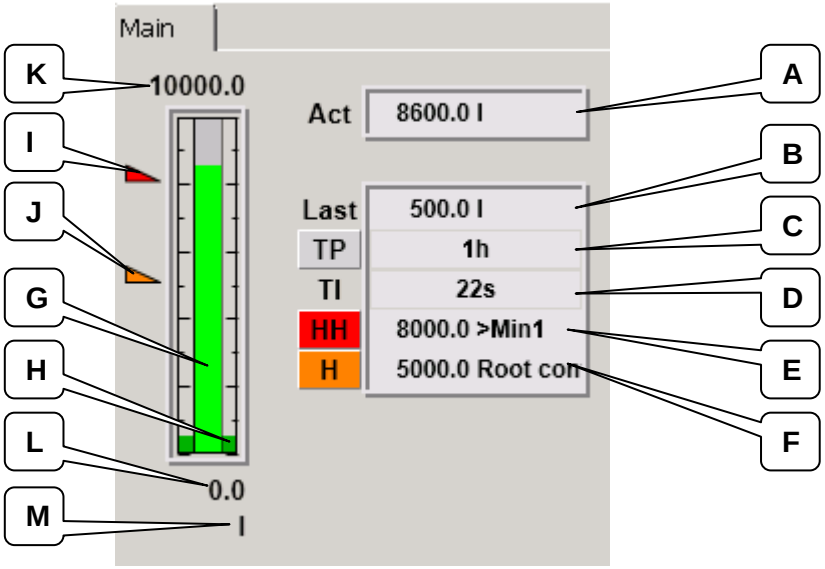



*Figure: 1-3 Main Tab*

| 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.

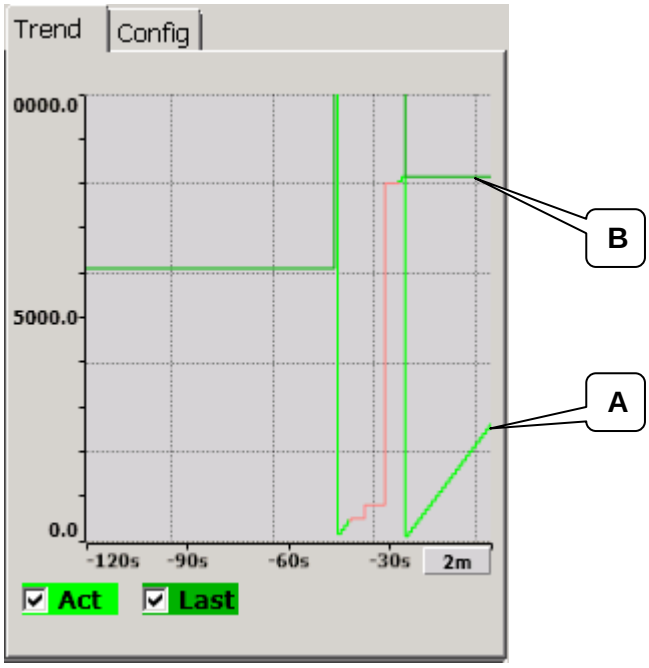



*Figure: 1-4 Trend Tab*

| 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.

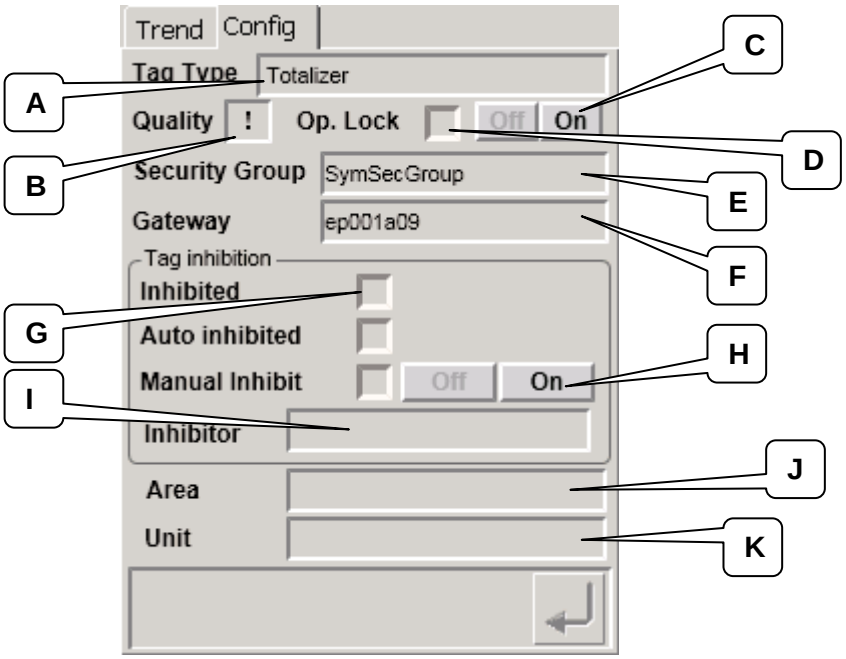



*Figure: 1-5 Config Tab*

| 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<br>Off: AKOR/SIG |
| D | Binary indicator<br>Yellow color: Op. Lock is On<br>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 |

| ID | Comment | Property |
|---|---|---|
| | | INHBAUTO<br>INHBMAN |
| H | Buttons allow to manually inhibit the tag | INHBMAN |
| 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 |

| Icon | Description | Property (Value) | Position | | |
|---|---|---|---|---|---|
| | | | Red | FP | Ext |
| | 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. |
| | 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

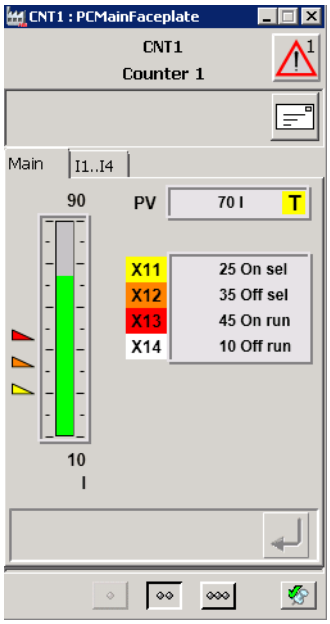



*Figure: 2-1 Main View*

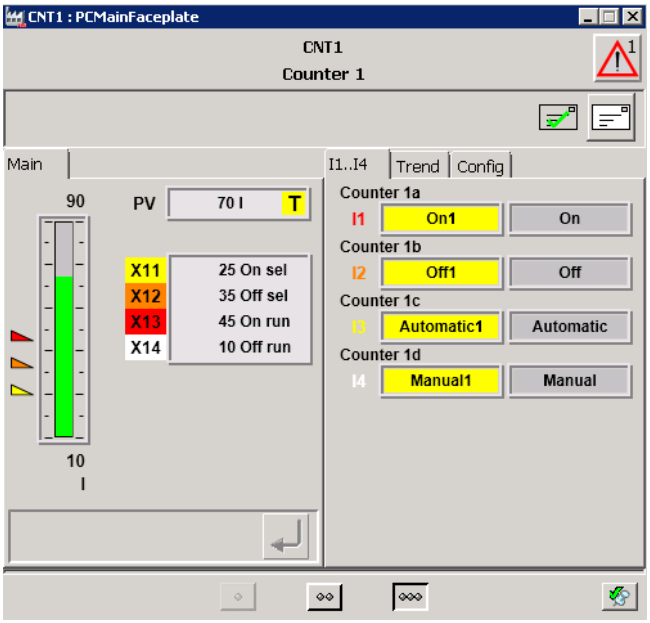



*Figure: 2-2 Extended View*

## 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 |

| 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_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

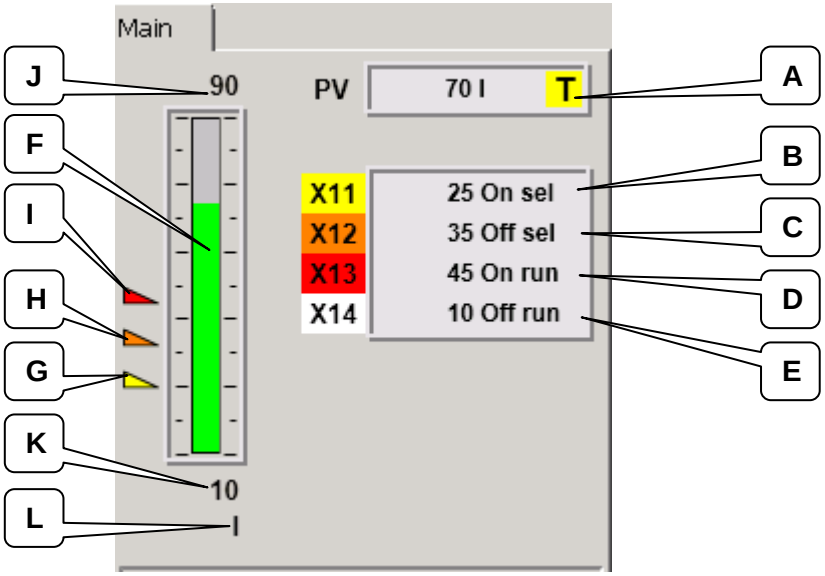



*Figure: 2-3 Main Tab*

| ID | Comment | Property |
|---|---|---|
| A | Actual counter value | XI/SIG |
| B | Limit X11 | Value: X11/SIG<br>Alarm state: I11/SIG |
| C | Limit X12 | Value: X12/SIG<br>Alarm state: I12/SIG |
| D | Limit X13 | Value: X13/SIG<br>Alarm state: I13/SIG |
| E | Limit X14 | Value: X14/SIG |

| ID | Comment | Property |
|---|---|---|
| | | Alarm state: I14/SIG |
| F | Actual counter value | XI/SIG |
| G | Limit X11 | Value: X11/SIG<br>Alarm state: I11/SIG |
| H | Limit X12 | Value: X12/SIG<br>Alarm state: I12/SIG |
| I | Limit X13 | Value: X13/SIG<br>Alarm state: I13/SIG |
| J | Max range for counter value | XI/HIGH |
| K | Min range for totalized value | XI/LOW |
| 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.

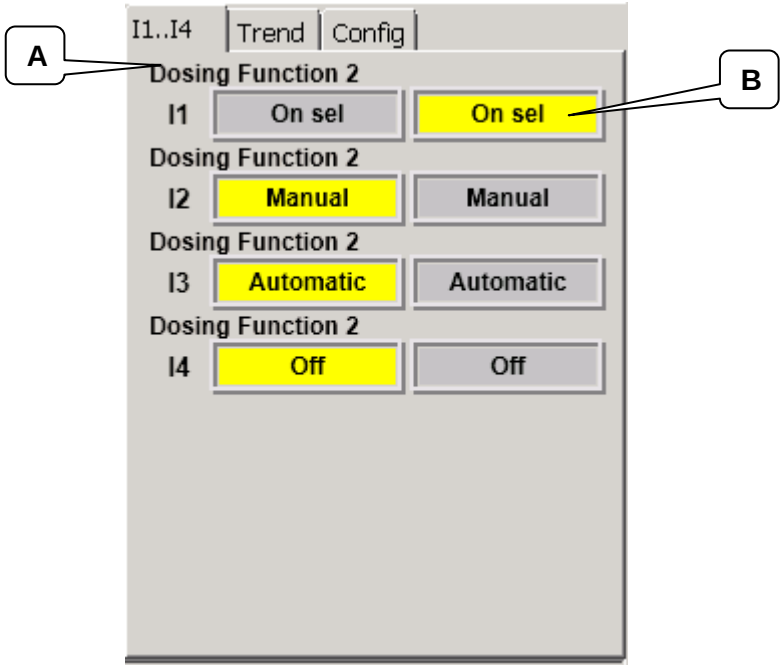



*Figure: 2-4 Classic Faceplate Binary Tab*

| 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.

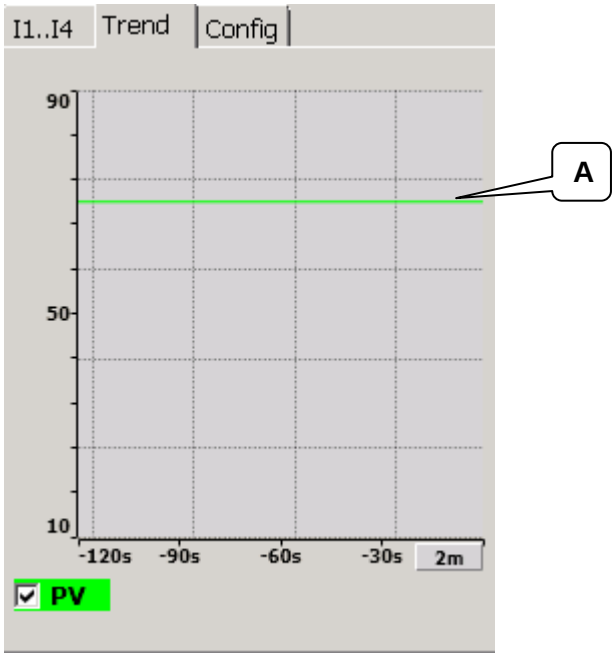



*Figure: 2-5 Trend Tab*

| 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.

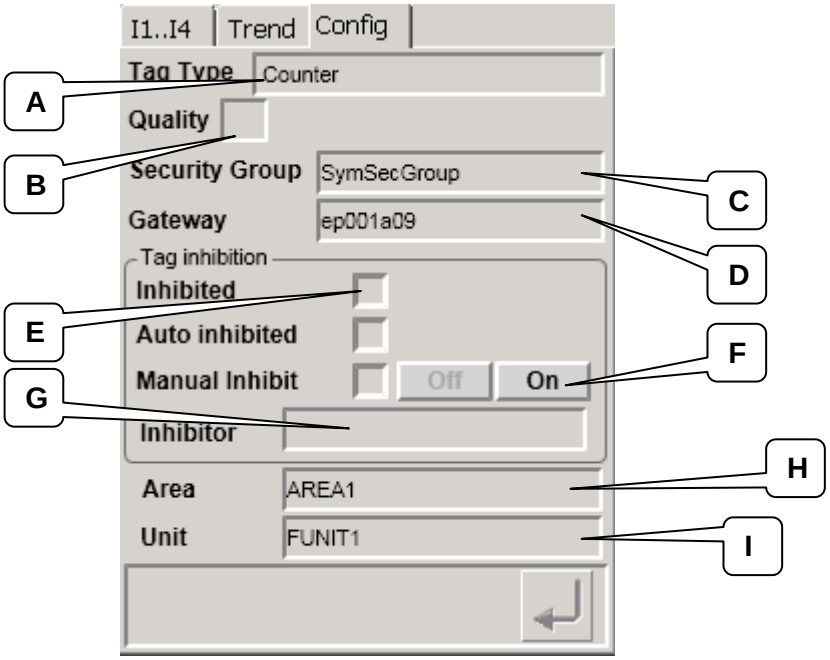



*Figure: 2-6 Config Tab*

| 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<br>INHBAUTO<br>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 |

| ID | Comment | Property |
|---|---|---|
| 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 |

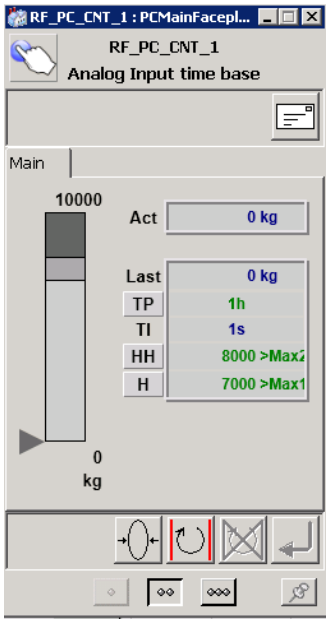
*Table: 2-11 Faceplate Buttons*

## 2.5 Graphic Elements

There are no graphic elements for this object type.

# Human System Interface (High Performance Style)

## 3. TOTAL - Totalizer



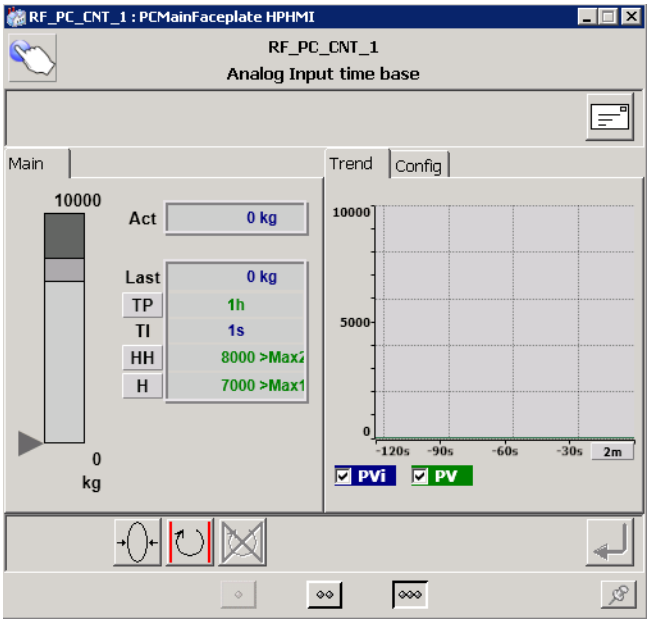




*Figure: 3-1 Main View* *Figure: 3-2 Extended View*

### 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.

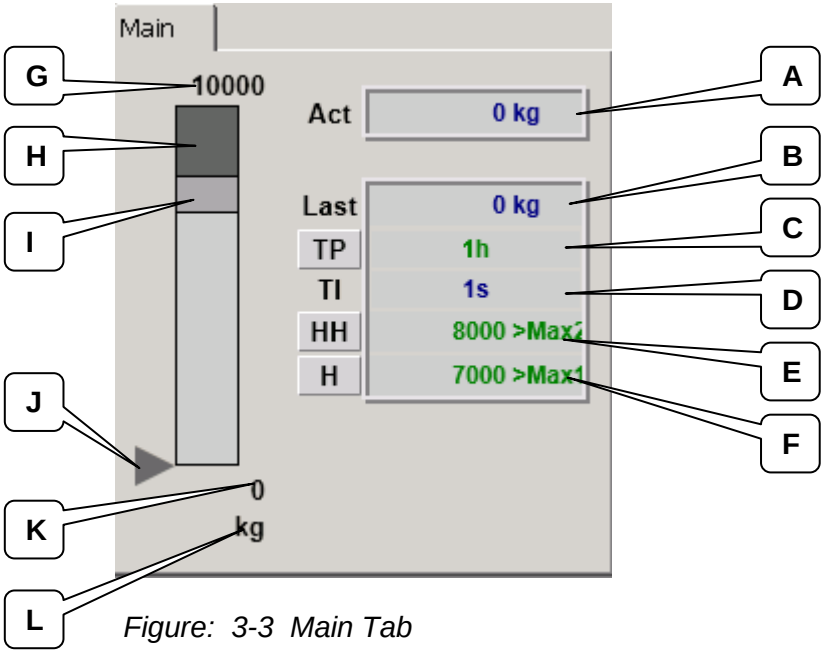



*Figure: 3-3 Main Tab*

| 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.

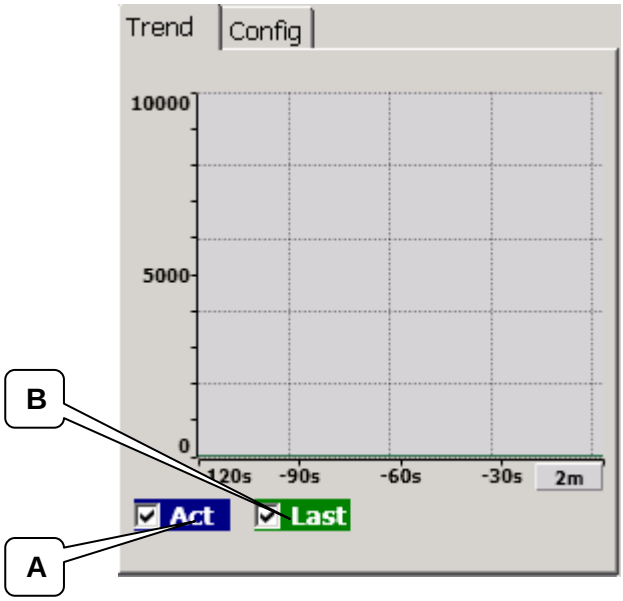



*Figure: 3-4 Trend Tab*

| 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.

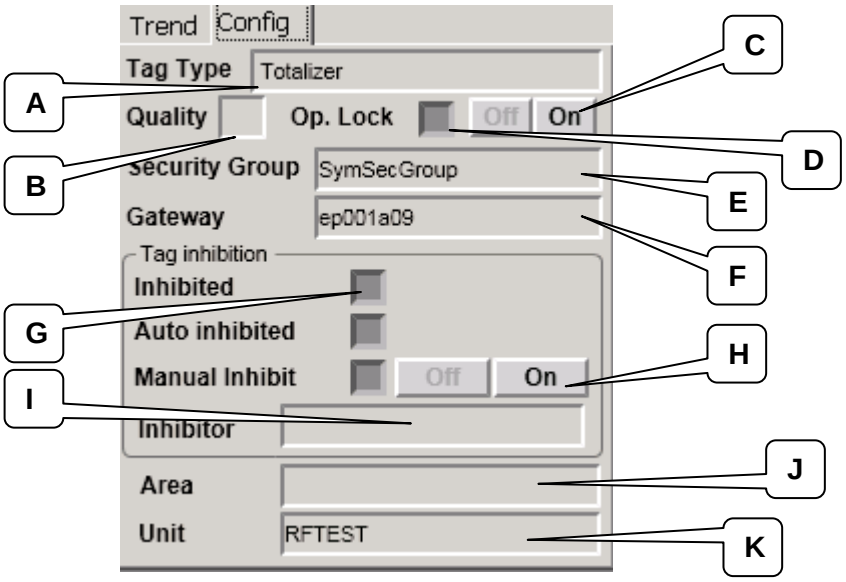



*Figure: 3-5 HPHMI Faceplate Config Tab*

| 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<br>Off: AKOR/SIG |
| D | Binary indicator<br>White color: Op. Lock is On<br>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<br>INHBAUTO<br>INHBMAN |

| ID | Comment | Property |
|---|---|---|
| H | Buttons allow to manually inhibit the tag | INHBMAN |
| 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: 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 |

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

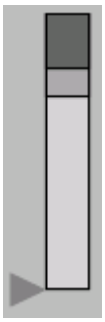
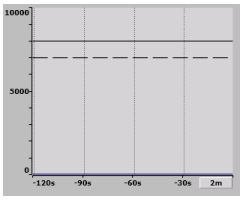
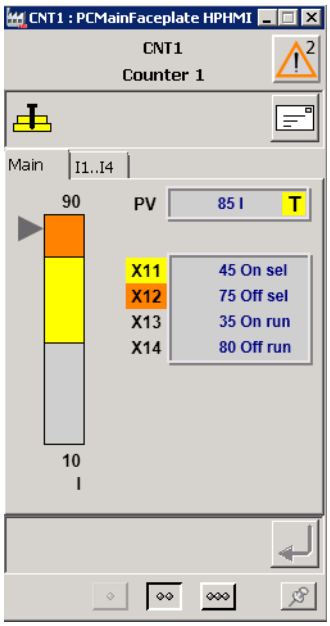
| Example | Graphic Element Name | Description |
|---|---|---|
| | totalizer_HPHMI_AlarmInd | Alarm indication |
|  | totalizer_HPHMI_ bargraph | Bargraph indication |
| | totalizer_HPHMI_qoy_numeric | Numeric indication last totalized value (signal QOY) |
| | totalizer_HPHMI_qy_numeric | Numeric indication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

*Table 3-1: Melody Totalizer GE*

# 4. CNT - Counter



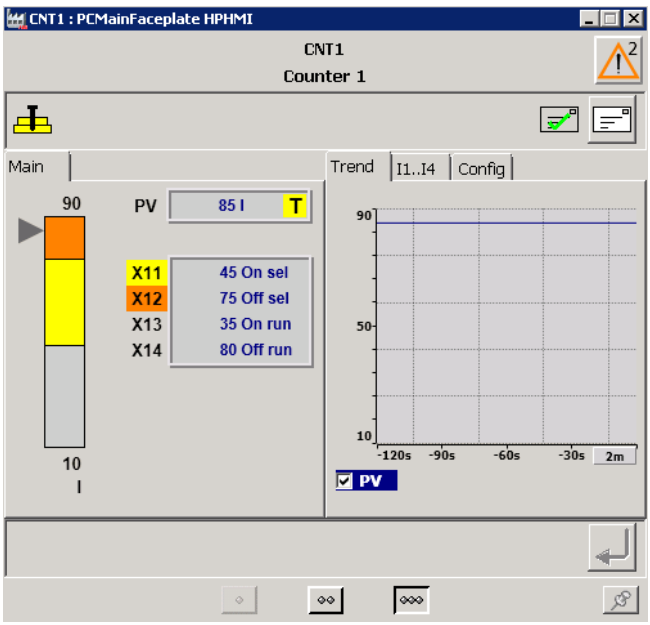




*Figure: 4-1 Main View* *Figure: 4-2 Extended View*

## 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 |

| Parameter in pixels | Main View | Ext. View |
|---|---|---|
| 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 | 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

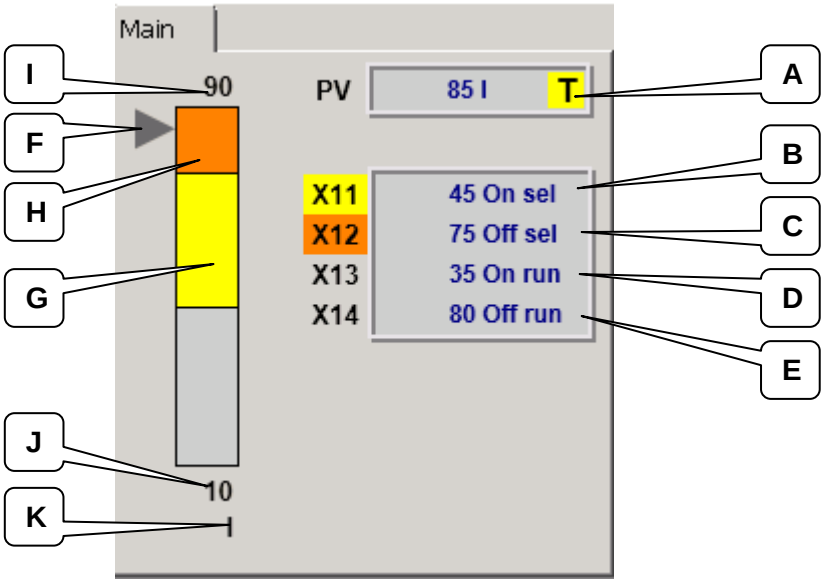



*Figure: 4-3 HPHMI Faceplate Main Tab*

| ID | Comment | Property |
|---|---|---|
| A | Actual counter value | XI/SIG |
| B | Limit X11 | Value: X11/SIG<br>Alarm state: I11/SIG |
| C | Limit X12 | Value: X12/SIG<br>Alarm state: I12/SIG |
| D | Limit X13 | Value: X13/SIG<br>Alarm state: I13/SIG |
| E | Limit X14 | Value: X14/SIG<br>Alarm state: I14/SIG |
| F | Actual counter value | XI/SIG |
| G | Limit X11 | Value: X11/SIG<br>Alarm state: I11/SIG |
| H | Limit X12 | Value: X12/SIG<br>Alarm state: I12/SIG |
| I | Max range for counter value | XI/HIGH |

| ID | Comment | Property |
|---|---|---|
| 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.

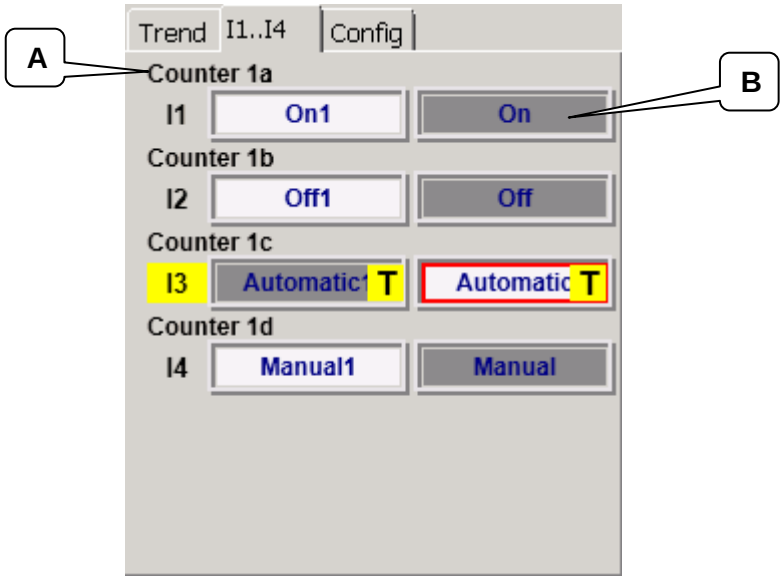



*Figure: 4-4 HPHMI Faceplate Binary Tab*

| 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.

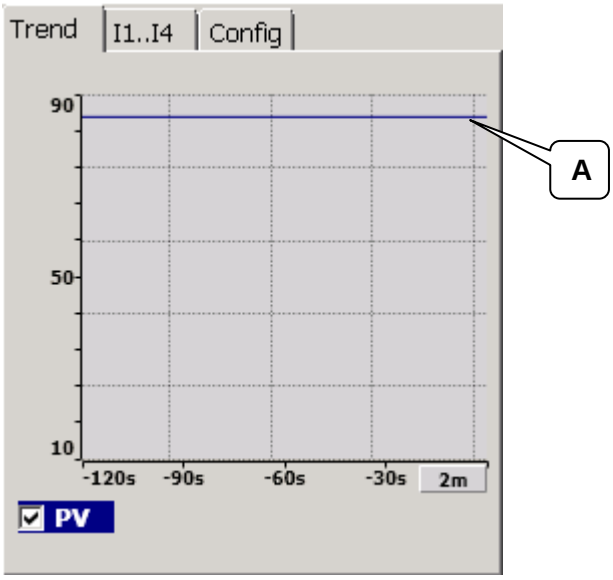



*Figure: 4-5 HPHMI Faceplate Trend Tab*

| 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.

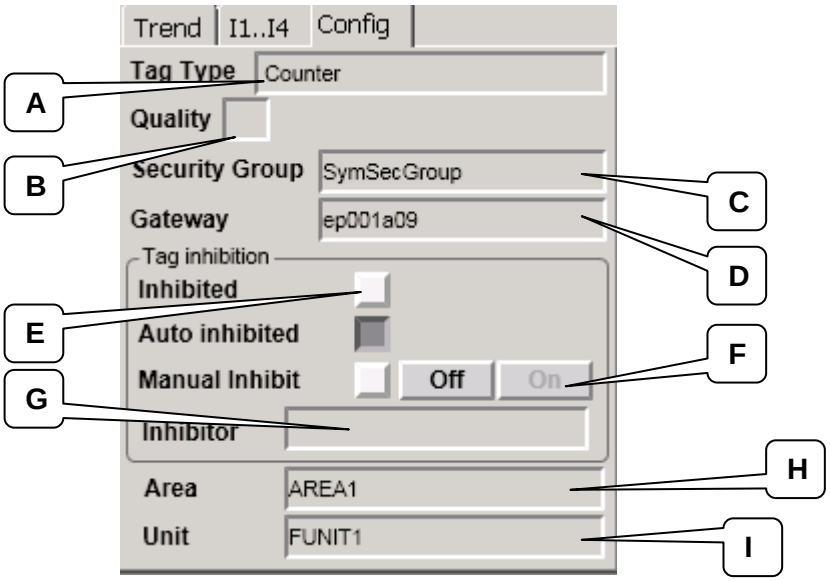



*Figure: 4-6 HPHMI Faceplate Config Tab*

| 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<br>INHBAUTO<br>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.

3BDA033450R5103EN_HMI_Counter and Totalizer Germany 2012-09-25

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