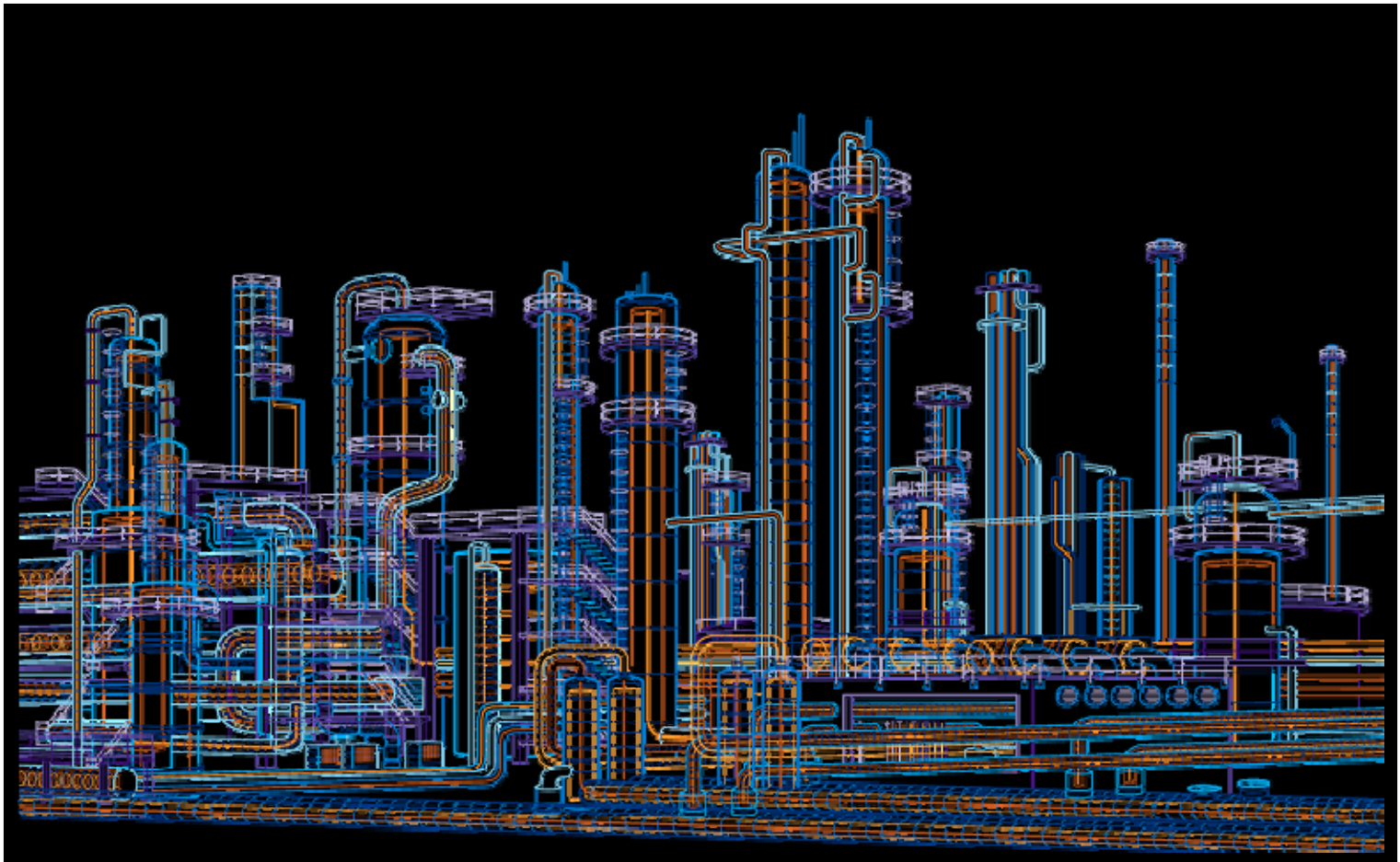

System 800xA
PC Toolkit Library for Freelance
Human System Interface - Monitoring
User Manual

System Version 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. 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 HMI standards consider the object types for Freelance. The System Extension supports System 800xA SV5.1RevA

Notice

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1. General

The following standard faceplates and graphic elements apply to the object types for Freelance. For both styles, all available faceplates and graphic elements are listed and described. For information regarding property configuration refer to document 3BDA033478R5102EN_HMI_Graphic Properties.doc

2. Human System Interface (Classic Style)

2.1 EVENT – Event Message

2.1.1 Faceplates

The faceplates for Freelance object types in classic style come along with the software package “800xA for Freelance”. Refer to the 800xA standard documentation 3BDD011811-510 for more information.

2.1.2 Graphic Elements

There are no classic graphic elements for this object type.

2.2 M_ANA – Analog Monitoring

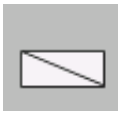
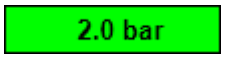
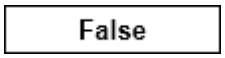
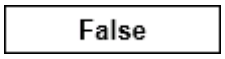
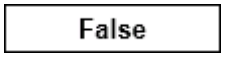
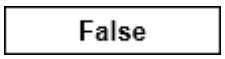
2.2.1 Faceplates

The faceplates for Freelance object types in classic style come along with the software package “800xA for Freelance”. Refer to the 800xA standard documentation 3BDD011811-510 for more information.

2.2.2 Graphic Elements

Graphic Elements based on Freelance object type M_ANA

Example	Graphic Element Name	Description
	m_ana_3way_valve_PG2	Mode icon Three-way-valve
	m_ana_bargraph_PG2	Bar graph indication of monitored value (IN signal)

Example	Graphic Element Name	Description
	m_ana_bucket_wheel_PG2	Mode icon Bucket Wheel
	m_ana_com_PG2	Mode icon Compressor
	m_ana_engine_PG2	Mode icon Engine/Motor
	m_ana_fan_PG2	Mode icon Fan
	m_ana_flap_PG2	Mode icon Flap
	m_ana_numeric_PG2	Indicator text box with numeric formatting displaying monitored value (IN signal). Input window is not available
	m_ana_pump_PG2	Mode icon Pump
	m_ana_text_sl1_PG2	Limit text box changing color/text if high-high level is reached. (SL1 signal active)
	m_ana_text_sl2_PG2	Limit text box changing color/text if high level is reached. (SL2 signal active)
	m_ana_text_sl3_PG2	Limit text box changing color/text if low level is reached. (SL3 signal active)
	m_ana_text_sl4_PG2	Limit text box changing color/text if low-low level is reached. (SL4 signal active)

Example	Graphic Element Name	Description
	m_ana_valve_PG2	Mode icon Valve

Table: 2-1 GE – M_ANA object type

2.3 M_BAV – Binary Monitoring of Antivalence

2.3.1 Faceplates

The faceplates for Freelance object types in classic style come along with the software package “800xA for Freelance”. Refer to the 800xA standard documentation 3BDD011811-510 for more information.

2.3.2 Graphic Elements

There are no classic graphic elements for this object type.

2.4 M_BIN – Binary Monitoring

2.4.1 Faceplates

The faceplates for Freelance object types in classic style come along with the software package “800xA for Freelance”. Refer to the 800xA standard documentation 3BDD011811-510 for more information.

2.4.2 Graphic Elements

Graphic Elements based on Freelance object type CT_ANA

Example	Graphic Element Name	Description
	m_bin_3way_valve_PG2	Mode icon Three-way-valve
	m_bin_bucketwheel_PG2	Mode icon Bucket Wheel
	m_bin_com_PG2	Mode icon Compressor

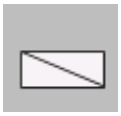
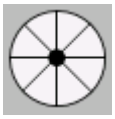
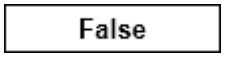
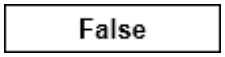
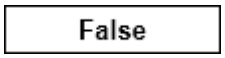
Example	Graphic Element Name	Description
	m_bin_engine_PG2	Mode icon Engine/Motor
	m_bin_fan_PG2	Mode icon Fan
	m_bin_flap_PG2	Mode icon Flap
	m_bin_pump_PG2	Mode icon Pump
	m_bin_RotaryValve_PG2	Mode icon Rotary Valve
	m_bin_text_PG2	Text element changing color/text according monitored binary signal (SMO signal used)
	m_bin_text_free_PG2	Text element changing color/text according configured binary signal.
	m_bin_text_noEvent_PG2	Text element changing color/text according monitored binary signal (SMO signal used). No Alarm indication.
	m_bin_valve_PG2	Mode icon Valve

Table: 2-2 GE – CT_ANA object type

2.5 M_GEN – General Monitoring

2.5.1 Faceplates

The faceplates for Freelance object types in classic style come along with the software package “800xA for Freelance”. Refer to the 800xA standard documentation 3BDD011811-510 for more information.

2.5.2 Graphic Elements

Graphic Elements based on Freelance object type M_GEN

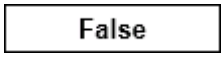
Example	Graphic Element Name	Description
	m_gen_text_PG2	Message status indication (SMO or SAI signal used)

Table: 2-3 GE – M_GEN object type

2.6 TS – Time scheduler

2.6.1 Faceplates

The faceplates for Freelance object types in classic style come along with the software package “800xA for Freelance”. Refer to the 800xA standard documentation 3BDD011811-510 for more information.

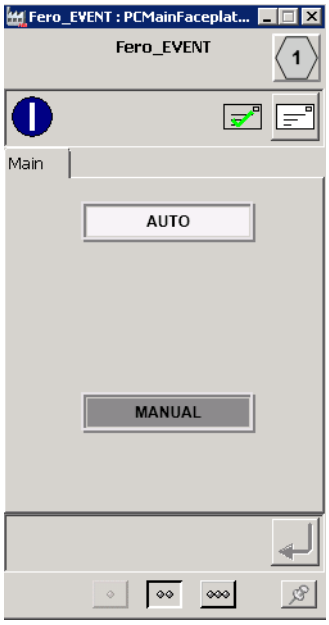
2.6.2 Graphic Elements

There are no classic graphic elements for this object type.

3. Human System Interface (High Performance Style)

3.1 EVENT – Event Message

3.1.1 Faceplate



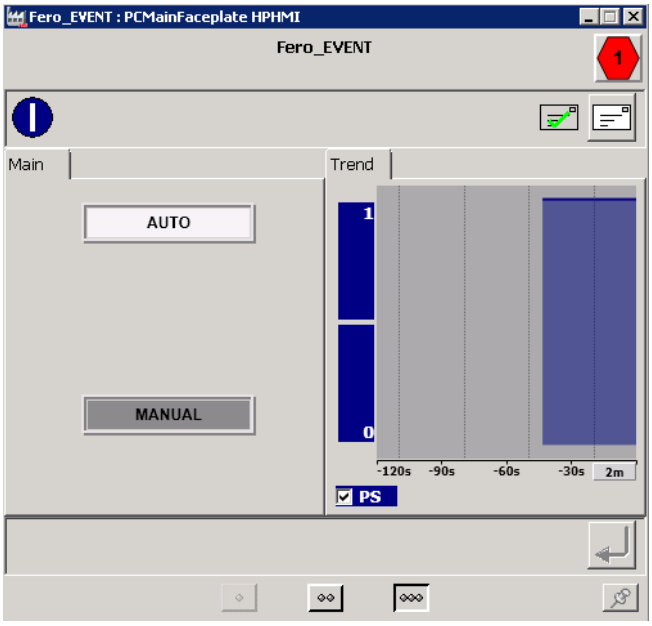


Figure: 3-1 Main View *Figure: 3-2 Extended View*

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Freelance AC800F
Object type:	EVENT (Event Message)
Function blocks group:	Monitoring
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

Elements

View	Aspect	Tab group	NLS-ID	User role
Main	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne

Table: 3-4 Faceplate Aspect names

3.1.2 Faceplate elements

PC_FE_HPHMI_Main

This is the main view for the EVENT object type faceplate. Operator input is not possible.

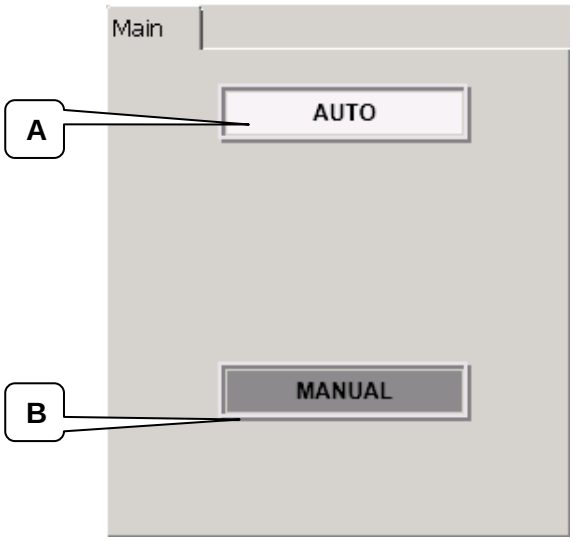


Figure: 3-3 HPHMI Faceplate Main Tab

ID	Comment	Property
A	Indication of output state on	PS Text: Et1
B	Indication of output state off	!PS Text: Et0

Table: 3-5 HPHMI Faceplate Main tab Description

PC_FE_HPHMI_Trend

This is the trend curves view for the EVENT object type faceplate.

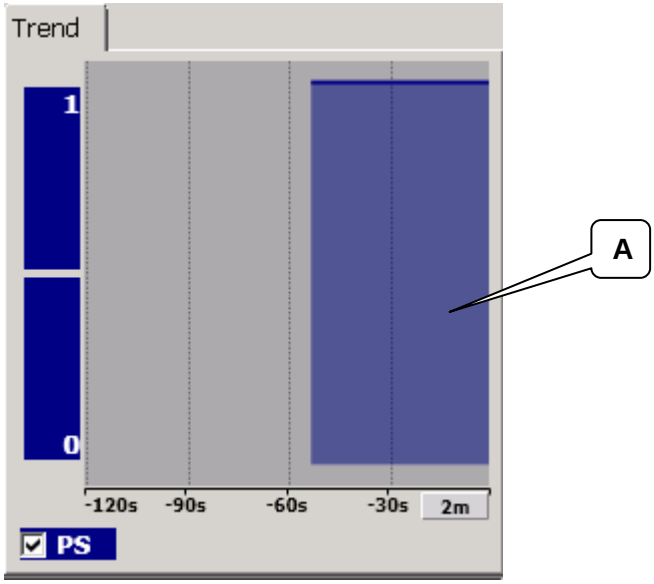


Figure: 3-4 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of binary output value (“PS” label)	PS

Table: 3-6 HPHMI Faceplate Trend tab Description

3.1.3 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Output state Off	PS (False)	-	1	1
	Output state On	PS (True)	-	1	1
	Module disabled (module is not	ENO	-	4	4

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	processed)				
	Operator note available	Operator Note:HoldsData	-	5	11

Table: 3-7 Indicators

3.1.4 Aspect Links

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

Table: 3-8 Aspect Links

3.1.5 Buttons

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

Table: 3-9 Buttons

3.1.6 Graphic Elements

There are no graphic elements available for this object type.

3.2 M_ANA – Analog monitoring

3.2.1 Faceplate

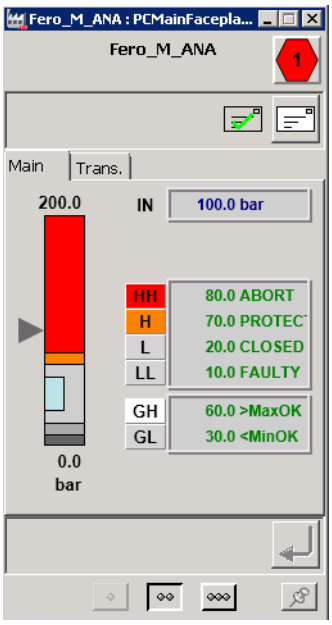


Figure: 3-5 Main View

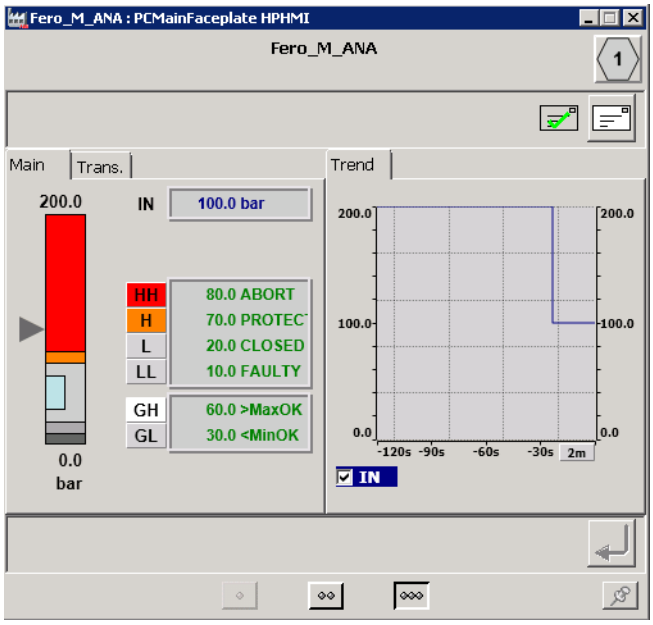


Figure: 3-6 Extended View

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Freelance AC800F
Object type:	M_ANA (Analog monitoring)
Function blocks group:	Monitoring
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 3-10 Basic Information

Layout

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

Table: 3-11 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: 3-12 Sizing Information

Elements

View	Aspect	Tab group	NLS-ID	User role
Main	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Main	PC_FE_HPHMI_Trans	1	NLSID_PC_F_TransTab	EveryOne
Ext	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Trans	1	NLSID_PC_F_TransTab	EveryOne
Ext	PC_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne

Table: 3-13 Faceplate Aspect names

3.2.2 Faceplate elements

PC_FE_HPHMI_Main

This is the main view for the M_ANA object type faceplate. Operator input is possible and based on access rights to the signals. Limits GH and GL are configured in “PC Additional Limits” aspect.

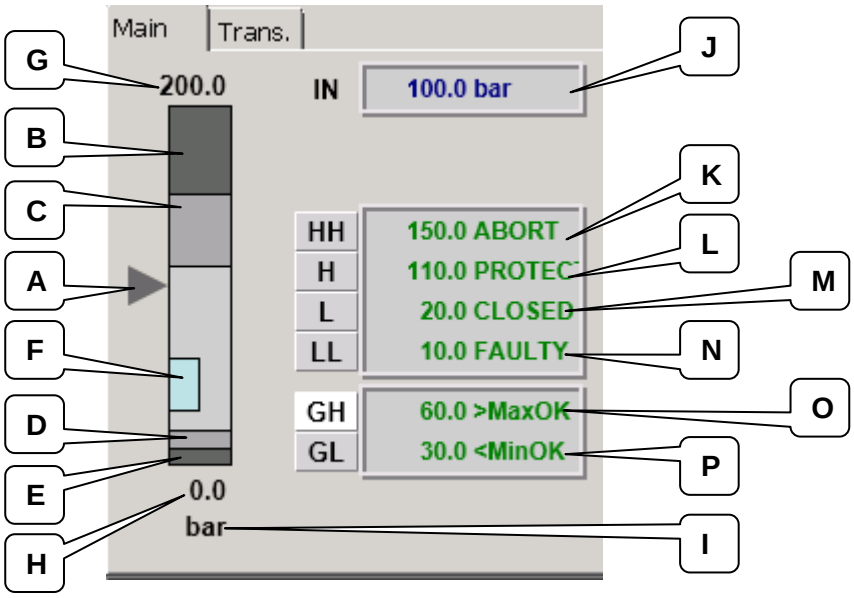


Figure: 3-7 HPHMI Faceplate Main Tab

ID	Comment	Property
A	Analog input value	IN
B	HH limit	Depending on CBF configuration: L1, L2, L3, L4
C	H limit	
D	L limit	
E	LL limit	
F	Normal range	PC Additional Limits:GH.Value PC Additional Limits:GL.Value
G	Maximum range of the signal	Mbe
H	Minimum range of the signal	Mba
I	Unit string	Dim
J	Analog input value	IN
K	HH limit	Depending on CBF configuration: L1, L2, L3, L4
L	H limit	Depending on CBF configuration: L1, L2, L3, L4
M	L limit	Depending on CBF configuration: L1, L2, L3, L4

ID	Comment	Property
N	LL limit	Depending on CBF configuration: L1, L2, L3, L4
O	Normal range max	PC Additional Limits:GH.Value
P	Normal range min	PC Additional Limits:GL.Value

Table: 3-14 HPHMI Faceplate Main tab Description

PC_FE_HPHMI_Trans

This is the transient limit's view for the M_ANA object type faceplate. Operator input is possible and based on access rights to the signals. Transient limits are not shown on bar graph. Numeric indication of limits (and its visibility) is depending on configuration in CBF.

.

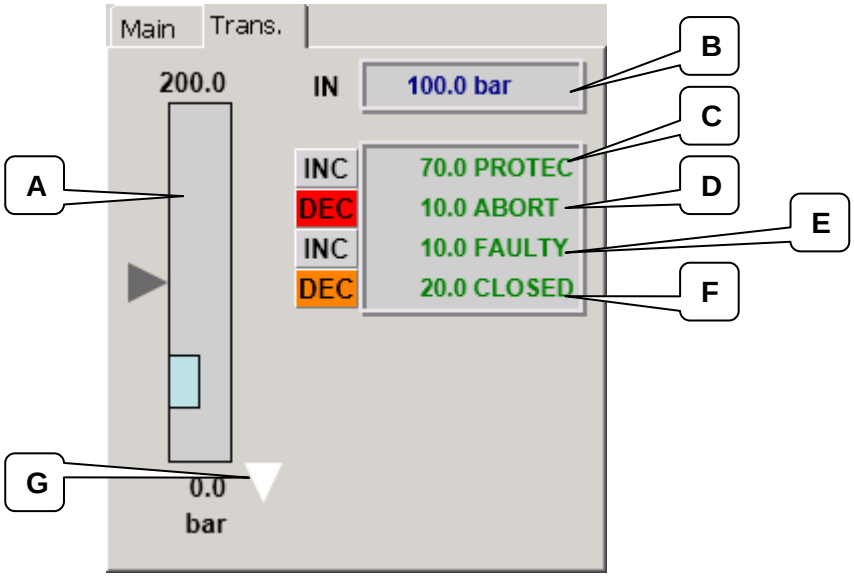


Figure: 3-8 HPHMI Faceplate Trans Tab

ID	Comment	Property
A	Bar graph indication	Refer to description of Main tab
B	Analog input value	IN
C	Transient limit 1	L1
D	Transient limit 2	L2
E	Transient limit 3	L3
F	Transient limit 4	L4
G	Arrow (up or down) indicates violation of transient High or Low limit	SL1, SL2, SL3, SL4
* button text for limits is INC, DEC. Each of this limits can be configured on different time bases		

Table: 3-15 HPHMI Faceplate Trans tab Description

PC_FE_HPHMI_Trend

This is the trend curves view for the M_ANA object type faceplate.

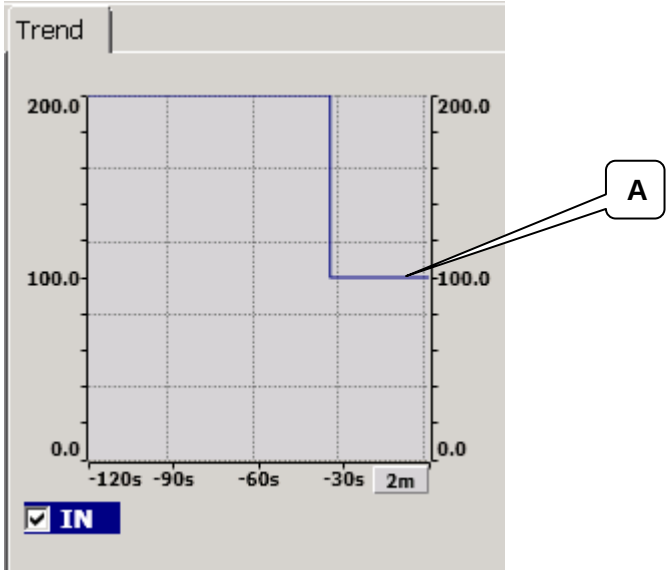


Figure: 3-9 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of analog input value (“IN” label)	IN

Table: 3-16 HPHMI Faceplate Trend tab Description

3.2.3 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Module disabled (module is not processed)	ENO	-	4	4
	Operator note available	Operator Note:HoldsData	-	5	10

Table: 3-17 Indicators

3.2.4 Aspect Links

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

Table: 3-18 Aspect Links

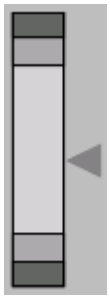
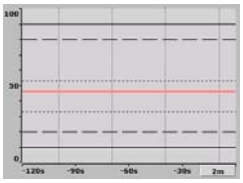
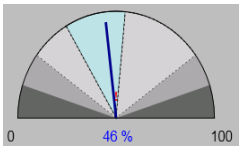
3.2.5 Buttons

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

Table: 3-19 Buttons

3.2.6 Graphic Elements

Graphic Elements based on Freelance object type M_ANA

Example	Graphic Element Name	Description
	m_ana_HPHMI_AlarmInd	Alarm indication
	m_ana_HPHMI_bargraph	Bargraph indication (signal IN)
	m_ana_HPHMI_trend	Trend indication (signal IN)
	m_ana_HPHMI_numeric	Numeric indication (signal IN)
	m_ana_HPHMI_voltmeter	Voltmeter indication (signal IN)
	m_ana_HPHMI_3way_valve	Three-way valve symbol based on analog input value (signal IN)

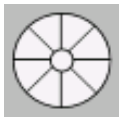
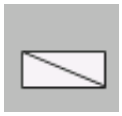
Example	Graphic Element Name	Description
	m_ana_HPHMI_bucketwheel	Bucket wheel symbol based on analog input value (signal IN)
	m_ana_HPHMI_com	Compressor symbol based on analog input value (signal IN)
	m_ana_HPHMI_engine	Engine symbol based on analog input value (signal IN)
	m_ana_HPHMI_flap	Flap symbol based on analog input value (signal IN)
	m_ana_HPHMI_pump	Pump symbol based on analog input value (signal IN)
	m_ana_HPHMI_valve	Valve symbol based on analog input value (signal IN)
	m_ana_HPHMI_text_SL1	Text indication based on active limit 1
	m_ana_HPHMI_text_SL2	Text indication based on active limit 2
	m_ana_HPHMI_text_SL3	Text indication based on active limit 3
	m_ana_HPHMI_text_SL4	Text indication based on active limit 4

Table: 3-20 GE – M_ANA object type

3.3 M_BAV – Binary Monitoring of Antivalence

3.3.1 Faceplate

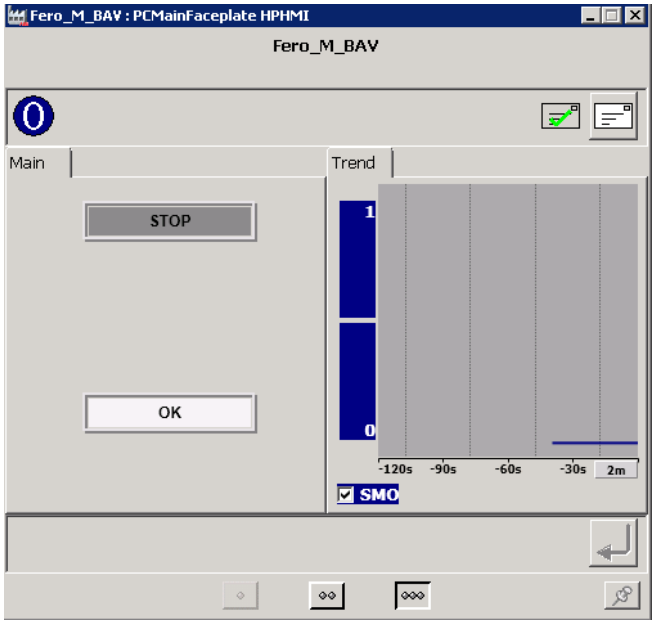


Figure: 3-10 Main View *Figure: 3-11 Extended View*

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Freelance AC800F
Object type:	M_BAV (Binary Monitoring of Antivalence)
Function blocks group:	Monitoring
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 3-21 Basic Information

Layout

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

Table: 3-22 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: 3-23 Sizing Information

Elements

View	Aspect	Tab group	NLS-ID	User role
Main	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne

Table: 3-24 Faceplate Aspect names

3.3.2 Faceplate elements

PC_FE_HPHMI_Main

This is the main view for the M_BAV object type faceplate. Operator input is not possible.

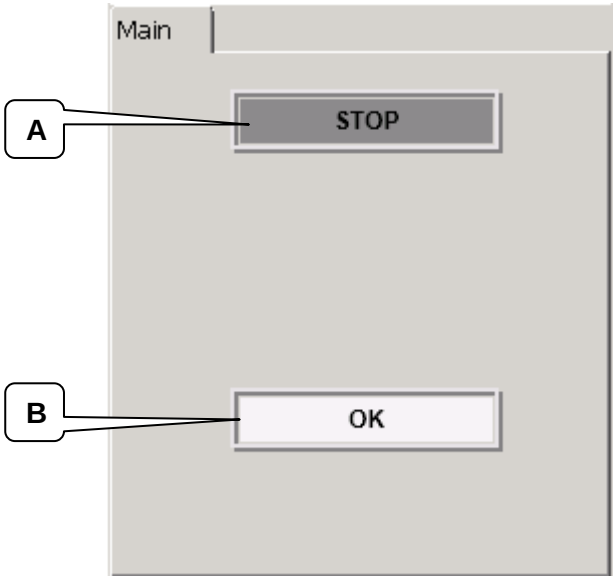


Figure: 3-12 HPHMI Faceplate Main Tab

ID	Comment	Property
A	Indication of active antivalence state	SMO Text: Bt1
B	Indication of inactive antivalence state	!SMO Text: Bt0

Table: 3-25 HPHMI Faceplate Main tab Description

PC_FE_HPHMI_Trend

This is the trend curves view for the M_BAV object type faceplate.

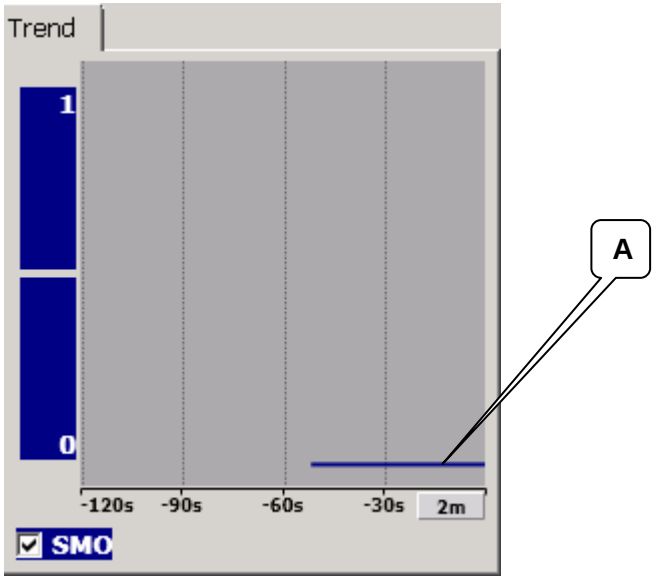


Figure: 3-13 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of binary output value (“SMO” label)	SMO

Table: 3-26 HPHMI Faceplate Trend tab Description

3.3.3 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Output state Off (no antivalence)	SMO (False)	-	1	1
	Output state On (antivalence)	SMO (True)	-	1	1
	Module disabled (module is not processed)	ENO	-	4	4

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Operator note available	Operator Note:HoldsData	-	5	11

Table: 3-27 Indicators

3.3.4 Aspect Links

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

Table: 3-28 Aspect Links

3.3.5 Buttons

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

Table: 3-29 Buttons

3.3.6 Graphic Elements

There are no graphic elements available for this object type.

3.4 M_BIN – Binary Monitoring

3.4.1 Faceplate

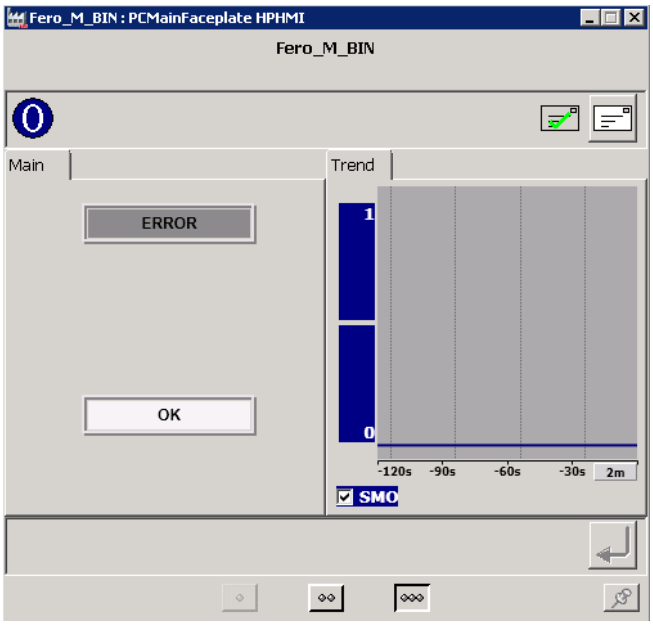


Figure: 3-14 Main View *Figure: 3-15 Extended View*

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Freelance AC800F
Object type:	M_BIN (Binary Monitoring)
Function blocks group:	Monitoring
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 3-30 Basic Information

Layout

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

Table: 3-31 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: 3-32 Sizing Information

Elements

View	Aspect	Tab group	NLS-ID	User role
Main	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne

Table: 3-33 Faceplate Aspect names

3.4.2 Faceplate elements

PC_FE_HPHMI_Main

This is the main view for the M_BIN object type faceplate. Operator input is not possible.

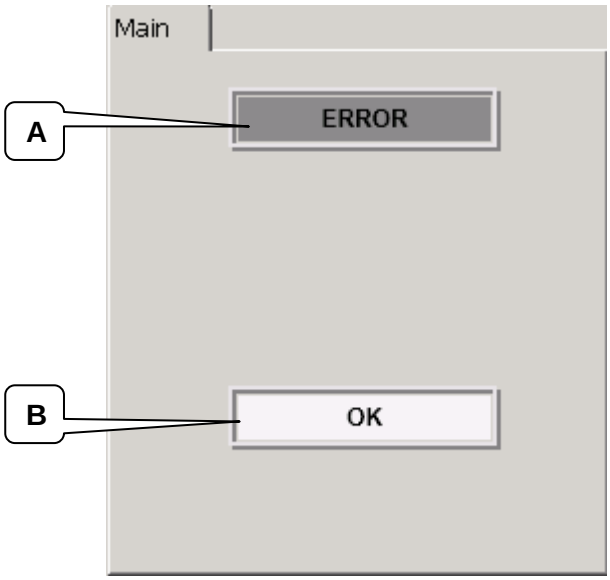


Figure: 3-16 HPHMI Faceplate Main Tab

ID	Comment	Property
A	Indication of binary state 'True'	SMO Text: Bt1
B	Indication of binary state 'False'	!SMO Text: Bt0

Table: 3-34 HPHMI Faceplate Main tab Description

PC_FE_HPHMI_Trend

This is the trend curves view for the M_BIN object type faceplate.

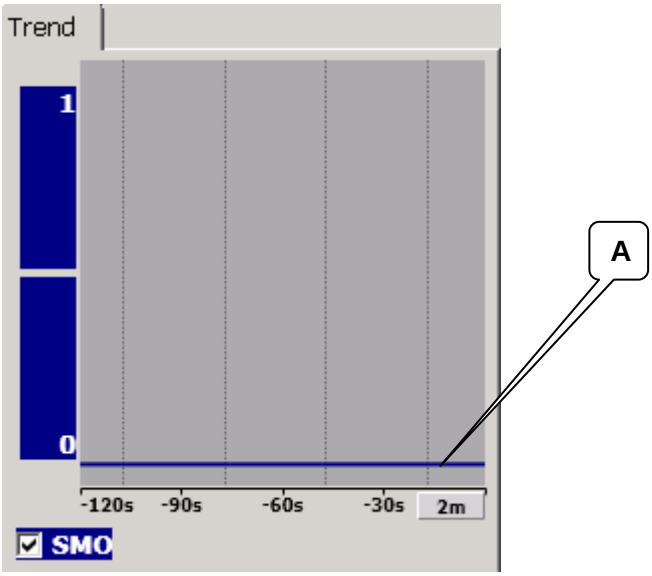


Figure: 3-17 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of binary output value ("SMO" label)	SMO

Table: 3-35 HPHMI Faceplate Trend tab Description

3.4.3 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Output state Off	SMO (False)	-	1	1
	Output state On	SMO (True)	-	1	1

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Module disabled (module is not processed)	ENO	-	4	4
	Operator note available	Operator Note:HoldsData	-	5	11

Table: 3-36 Indicators

3.4.4 Aspect Links

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

Table: 3-37 Aspect Links

3.4.5 Buttons

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

Table: 3-38 Buttons

3.4.6 Graphic Elements

Graphic Elements based on Freelance object type M_BIN

Example	Graphic Element Name	Description
	m_bin_HPHMI_AlarmInd	Alarm indication
	m_bin_HPHMI_3way_valve	Three-way valve symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_bucketwheel	Bucket wheel symbol based on monitored binary value (signal SMO)

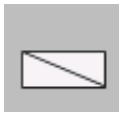
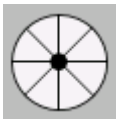
Example	Graphic Element Name	Description
	m_bin_HPHMI_com	Compressor symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_engine	Engine symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_flap	Flap symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_pump	Pump symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_RotaryValve	Rotary valve symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_valve	Valve symbol based on monitored binary value (signal SMO)
	m_bin_HPHMI_text	Text indication based on monitored binary value (signal SMO). On/Off texts come from CBF
	m_bin_HPHMI_text_free	Text indication based on monitored binary value (signal SMO). On/Off texts are configurable via input properties

Table: 3-39 GE – M_BIN object type

3.5 M_GEN – General Monitoring

3.5.1 Faceplate

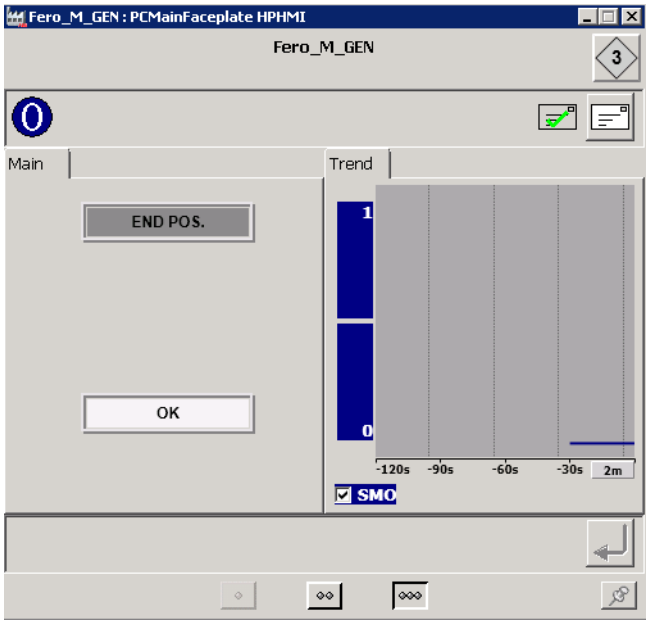


Figure: 3-18 Main View *Figure: 3-19 Extended View*

Basic information

Name:	PCMainFaceplate HPHMI
Description:	PC HPHMI Main Faceplate
Connect type:	Freelance AC800F
Object type:	M_GEN (General Monitoring)
Function blocks group:	Monitoring
Min. required 800xA version:	SV5.1RevA
Graphics Builder version:	PG2

Table: 3-40 Basic Information

Layout

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

Table: 3-41 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: 3-42 Sizing Information

Elements

View	Aspect	Tab group	NLS-ID	User role
Main	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Main	1	NLSID_PC_Main	EveryOne
Ext	PC_FE_HPHMI_Trend	2	NLSID_PC_Trend	EveryOne

Table: 3-43 Faceplate Aspect names

3.5.2 Faceplate elements

PC_FE_HPHMI_Main

This is the main view for the M_GEN object type faceplate. Operator input is not possible.

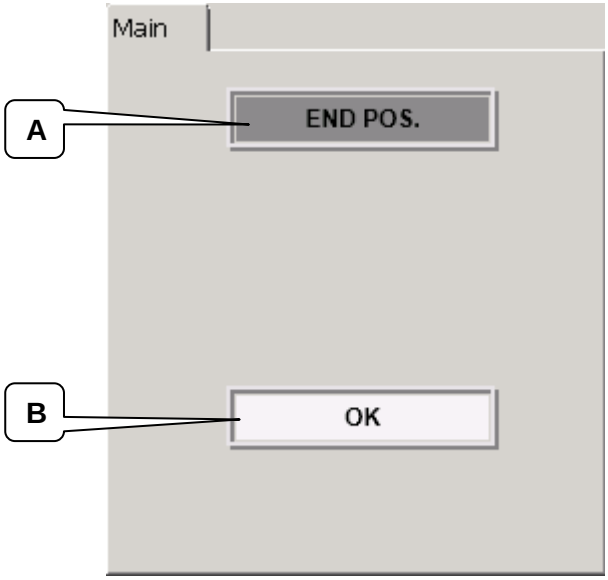


Figure: 3-20 HPHMI Faceplate Main Tab

ID	Comment	Property
A	Indication of binary state 'True'	SMO Text: Bt1
B	Indication of binary state 'False'	!SMO Text: Bt0

Table: 3-44 HPHMI Faceplate Main tab Description

PC_FE_HPHMI_Trend

This is the trend curves view for the M_GEN object type faceplate.

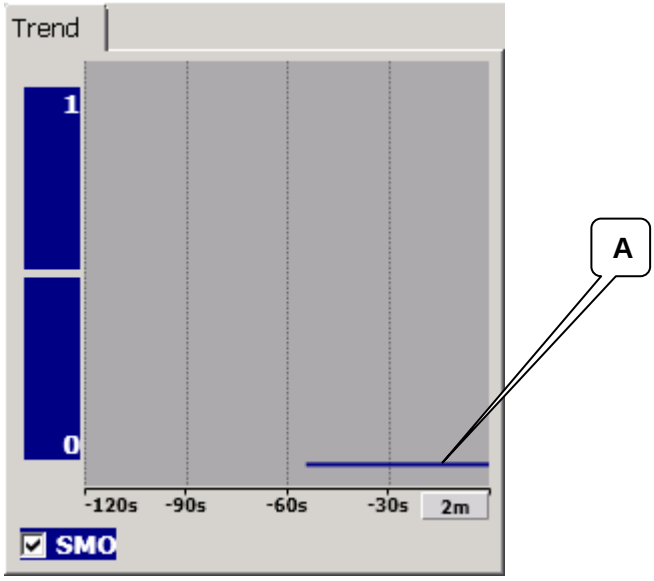


Figure: 3-21 HPHMI Faceplate Trend Tab

ID	Comment	Property
A	Indication of binary output value ("SMO" label)	SMO

Table: 3-45 HPHMI Faceplate Trend tab Description

3.5.3 Indicators

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Output state Off	SMO (False)	-	1	1
	Output state On	SMO (True)	-	1	1

Icon	Description	Property (Value)	Position		
			Red	FP	Ext
	Module disabled (module is not processed)	ENO	-	4	4
	Operator note available	Operator Note:HoldsData	-	5	11

Table: 3-46 Indicators

3.5.4 Aspect Links

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

Table: 3-47 Aspect Links

3.5.5 Buttons

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

Table: 3-48 Buttons

3.5.6 Graphic Elements

Graphic Elements based on Freelance object type M_GEN

Example	Graphic Element Name	Description
	m_gen_HPHMI_AlarmInd	Alarm indication
True	m_gen_HPHMI_text	Text indication based on monitored binary value (signal SMO)

Table: 3-49 GE – M_GEN object type

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