System 800xA System Alarm Messages

System Version 6.0

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ABB

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System Version 6.0

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About This User Manual

General

Any security measures described in this User Manual, for example, for user access, password security, network security, firewalls, virus protection, etc., represent possible steps that a user of an 800xA System may want to consider based on a risk assessment for a particular application and installation. This risk assessment, as well as the proper implementation, configuration, installation, operation, administration, and maintenance of all relevant security related equipment, software, and procedures, are the responsibility of the user of the 800xA System.

The System 800xA is used for monitoring and controlling a process plant. Information in this user manual is intended for the operators of a process plant. This user manual describes the System Alarms that are generated when operating System 800xA.

User Manual Conventions

Microsoft Windows conventions are normally used for the standard presentation of material when entering text, key sequences, prompts, messages, menu items, screen elements, etc.

Warning, Caution, Information, and Tip Icons

This User Manual includes Warning, Caution, and Information where appropriate to point out safety related or other important information. It also includes Tip to point out useful hints to the reader. The corresponding symbols should be interpreted as follows:

Electrical warning icon indicates the presence of a hazard which could result in *electrical shock.*

Warning icon indicates the presence of a hazard which could result in *personal injury.*

Caution icon indicates important information or warning related to the concept discussed in the text. It might indicate the presence of a hazard which could result in *corruption of software or damage to equipment/property.*

Information icon alerts the reader to pertinent facts and conditions.

Tip icon indicates advice on, for example, how to design your project or how to use a certain function

Although Warning hazards are related to personal injury, and Caution hazards are associated with equipment or property damage, it should be understood that operation of damaged equipment could, under certain operational conditions, result in degraded process performance leading to personal injury or death. Therefore, fully comply with all Warning and Caution notices.

Terminology

A complete and comprehensive list of terms is included in *System 800xA System Guide Functional Description (3BSE038018*)*. The listing includes terms and definitions that apply to the 800xA System where the usage is different from commonly accepted industry standard definitions and definitions given in standard dictionaries such as Webster's Dictionary of Computer Terms. Terms that uniquely apply to this User Manual are listed in the following table.

Released User Manuals and Release Notes

A complete list of all User Manuals and Release Notes applicable to System 800xA is provided in *System 800xA Released User Manuals and Release Notes (3BUA000263*)*.

System 800xA Released User Manuals and Release Notes (3BUA000263)* is updated each time a document is updated or a new document is released. It is in pdf format and is provided in the following ways:

- Included on the documentation media provided with the system and published to ABB SolutionsBank when released as part of a major or minor release, Service Pack, Feature Pack, or System Revision.

- Published to ABB SolutionsBank when a User Manual or Release Note is updated in between any of the release cycles listed in the first bullet.

A product bulletin is published each time *System 800xA Released User Manuals and Release Notes (3BUA000263*)* is updated and published to ABB SolutionsBank.

Section 1 System Alarm Messages

The most important system alarms are described in Table 1, Table 2, Table 3, Table 4, Table 5, Table 6, Table 7,Table 8, Table 9, Table 10 and Table 11 grouped based on their functional areas:

*   The Component column lists from where the system alarm originates. (The corresponding function area is listed within parenthesis).

*   The Priority of the Alarm lists the priority associated with the alarm.

*   The Message Description column lists short descriptions of system alarms. Text within % signs is replaced with the current data at run-time.

*   The Extended description column explains system alarms further.

Operations

Table 1. Operations - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
AdvExtAlarm, AdvExtAIEngine (External Alarm)	1	Connection of AE subscr. failed	The External Alarm service failed to connect to an OPC Alarm&Event Server. This indicates that the External Alarm function in this node is not working.
AfwAlarmEvent (Alarm and Event)	1	Connection to OPC AE Server lost	The Alarm and Event service has lost contact with the OPC Alarm&Event Server in the specified node.
AfwAspDirSrv (Aspect Server/Aspect Directory)	1	Failed to open the aspect directory database files in <directory>.	Could not open the aspect directory database files. This indicates that the Aspect Directory in this node is not working.
AfwAspDirSrv (Aspect Server/Aspect Directory)	1	Failed to synchronize database, reason=<error code>	Failed to synchronize a backup Aspect Directory to the master Aspect Server. This indicates that the Aspect Directory in this node is not working.
AfwFsdServer (File Set Distribution)	2	FileSystemError	A file system operation failed. The operations could be open, remove, find, create and rename. The files involved are fileset files either on the client (in the FSD cache) or on the server.
AdvExtAlarm, AdvExtAIEngine (External Alarm)	1	Init of AE subscr. failed	The External Alarm service failed to connect to an OPC Alarm&Event Server. This indicates that the External Alarm function in this node is not working.

Table 1. Operations - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
AdvExtAlarm, AdvExtAIEngine (External Alarm)	1	Initiation failed	Could not start the External Alarm Server due to severe problems in the system. This indicates that the External Alarm function in this node is not working.
AdvDsOPCServerAdapter (Data Subscription)	2	OPC DA Connect Failed	The Data Subscription service failed to connect to an OPC Data Access Server. This indicates that no OPC Data will be available from this node.
AdvDsOPCServerAdapter (Data Subscription)	1	OPC DA Server Error	The Data Subscription service has received a message from an OPC Data Access Server that it is in error. This indicates that no OPC Data will be available from this node.
AdvDsOPCServerAdapter (Data Subscription)	1	OPC DA Server Stopped	The Data Subscription service has lost contact with an OPC Data Access Server. This indicates that no OPC Data will be available from this node.
EventStorage	2	Resize failed: Disk Full	The Event Storage Server has failed to resize a storage, because of insufficient disk space. This indicates that no more events will be stored.
EventStorage	2	Resize failed: Unknown Error	The Event Storage Server has failed to resize a storage. This indicates that no more events will be stored.
AfwServiceManager (Service Manager)	1	Service provider entered error state	This indicates that the service provider on the specified node is not working.

Table 1. Operations - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
AfwFsdServer (File Set Distribution)2	2	ServiceStartupError	Unable to start up the File Set Distribution Service. This can be caused by a file system error.
AfwPropertyTransfer (Property Transfer)	2	Write to property <Property> failed	The data point (PROPERTY) will not be updated
RNRP	2	Network Error	Primary network down
RNRP	2	Network Error	Secondary network down
RNRP	1	Network Error	Network down
Service	2	Service Provider Inoperative	Service Provider Inoperative
Service	1	Service Group Inoperative	Service Provider Inoperative

800xA for AC 800M

The System Alarms generated by Control are available in System 800xA Control 6.0 AC 800M Configuration user manual (3BSE035980*).

Device Management Foundation Fieldbus

Table 2. Device Management FF - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
H1 device	2	H1 device not present	The H1 device is not in the live list
Linking device	2	LAS stopped	The cyclic communication of the H1 link is stopped.
Linking device	2	LAS not loaded	The LAS has no configuration I the H1 link
Linking device	2	H1 Link redundancy error	Different H1 devices are connected to the redundant ports of the H1 link
Linking device	2	Linking device not present	The linking device is not in the live list
Linking device	2	No secondary linking device	The live list contains no secondary linking device for a redundant pair
Linking device	2	No primary linking device	The live list contains no primary linking device for a redundant pair
Linking device	2	Two primary linking devices	The live list contains two primary linking devices for a redundant pair
Linking device	2	LD with active WEB server	The Web server of the linking device is active
Linking device	2	LD with default password	At least one user the default password is still used in the linking device

Batch Management

Table 3. Batch Management - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Batch	2	Starting Batch Server as Primary	The Batch Server application on the indicated node is being started and will act as the primary Batch Server.
Batch	2	Secondary Batch Server Failed, Primary Operation only	The indicated secondary Batch Server has failed. Only the primary Batch Server is still functioning so there is no redundancy.
Batch	2	Secondary Batch Server Started	The indicated Batch Server application is being started and it will function as a secondary Batch Server.
Batch	2	Restart process_name	The identified process (process_name) is being restarted.
Batch	1	ERROR: task task_name, hard failure	The identified task (task_name) has failed in such a manner that it cannot be restarted automatically.

800xA History

Table 4. 800xA History - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
AfwcPIMsSyncService	1	Connection to RTDB Lost	The connection between 800xA History Sync Service and the History Data Collector (RTDB) was lost.
AfwcPIMsSyncService	1	RTDB status change	Any change in status of History Data Collector (RTDB) services will be intimated through a System Alarm. The message description will change depending upon which service got impacted.

PC, Network Software and Monitoring (PNSM)

Table 5. PC, Network Software Monitoring (PNSM) - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Basic Computer Asset	1	Resource Alarm	The total computer free virtual memory as a percentage of the total available virtual memory. An actual value less than or equal to the configured limit will cause an alarm.
Basic Computer Asset	1	Resource Alarm	The total non-paged pool for a computer in Megabytes. An actual value greater than or equal to the configured limit will cause an alarm.
Basic Computer Asset	1	Resource Alarm	The free hard drive space in Megabytes. An actual value less than or equal to the configured limit will cause an alarm.

Table 5. PC, Network Software Monitoring (PNSM) - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Basic Computer Asset	1	Resource Alarm	The sustained 2-minute average total CPU load as a percentage. An actual value greater than or equal to the configured limit will cause an alarm.
Light Computer Process Alarm	1	Process Status	Generates an alarm when a problem is detected with the process.
Light Computer Process Alarm	1	Process Status	Provides summaries of the state of several key indicators within the process.
Light Computer Process Alarm	1	Process Status	Provides the values of several indicators within the process.

PNSM Device Libraries

Table 6. PNSM Device Libraries - System Alarms

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Dell Power Edge 2600	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
	Overall Thermal System Status	System Thermal State problem.
	Physical Memory Array Status	Physical meory arrary problem
	Storage System Status	Global Status of Storage system is not Ok
	Power Supply system status	Power Supply system failure.
	Overall Cooling system Status	Cooling system problem.
Dell Power Edge 28xx	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
	Overall Thermal System Status	System Thermal State problem.
	Physical Memory Array Status	Physical meory arrary problem
	Storage System Status	Global Status of Storage system is not Ok
	Power Supply system status	Power Supply system failure.
	Overall Cooling system Status	Cooling system problem.
Dell Power Edge 29xx	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
	Overall Thermal System Status	System Thermal State problem.
	Physical Memory Array Status	Physical meory arrary problem

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
	Storage System Status	Global Status of Storage system is not Ok
	Power Supply system status	Power Supply system failure.
	Overall Cooling system Status	Cooling system problem.
Dell Power Edge M600	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
Dell Power Edge M620	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
Dell Power Edge M1000e	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
Dell Power Edge R320	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
	Overall Thermal System Status	System Thermal State problem.
	Physical Memory Array Status	Physical meory arrary problem
	Storage System Status	Global Status of Storage system is not Ok
	Power Supply system status	Power Supply system failure.
	Overall Cooling system Status	Cooling system problem.
Dell Power Edge R710	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
Dell Power Edge R620	Device Connection	Device disconnected
	System global Status	System Global Status is not OK

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Dell Power Edge R720	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
Dell Power Edge R730	Device Connection	Device disconnected
	System global Status	System Global Status is not OK
Cisco UCS C240 M3	Device Connection	Device disconnected
	Overall Thermal and Fan Status	Systems Thermal environment problem
HP Blade System C7000-3000	Device Connection	Device disconnected
	Enclosure Condition	Blade System Enclosure status is not Ok
HP ProLiant Bl460c G5	Device Connection	Device disconnected
	Memory System board	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP ProLiant Bl460c G7	Device Connection	Device disconnected
	Memory System board	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
HP ProLiant Bl460c G8	Device Connection	Device disconnected
	Memory System board	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
HP ProLiant DL380 G5	Device Connection	Device disconnected
	Memory System board	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP ProLiant DL380 G6	Device Connection	Device disconnected
	Memory System board 1	Memory System Board detected memory problem
	Memory System board 2	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
HP ProLiant DL380 G7	Device Connection	Device disconnected
	Memory System board 1	Memory System Board detected memory problem
	Memory System board 2	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
	System Health Status	System Health Status Detected problem
	Raid Status	System Raid Detected Problem

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP ProLiant DL380 G9	Device Connection	Device disconnected
	Memory System board 1	Memory System Board detected memory problem
	Memory System board 2	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
	System Health Status	System Health Status Detected problem
	Raid Status	System Raid Detected Problem
HP ProLiant ML350 G5	Device Connection	Device disconnected
	Memory System board	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP ProLiant ML350 G6	Device Connection	Device disconnected
	Memory System board 1	Memory System Board detected memory problem
	Memory System board 2	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
HP ProLiant ML350 G9	Device Connection	Device disconnected
	Memory System board 1	Memory System Board detected memory problem
	Memory System board 2	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP ProLiant ML370 G5	Device Connection	Device disconnected
	Memory System board 1	Memory System Board detected memory problem
	Memory System board 2	Memory System Board detected memory problem
	Overall Thermal and Fan Status	Systems Thermal environment problem
	Drive Array controller-1	Drive Array controller status is not Ok
	Drive Array controller-2	Drive Array controller status is not Ok
	Power Subsystem	Power Subsystem failure
IBM Blade Center HS22	Device Connection	Device disconnected
	System Health Status	System Health Status Detected problem
IBM Blade Center S	Device Connection	Device disconnected
	System Health Status	System Health Status Detected problem
IBM X3650	Device Connection	Device disconnected
	System Health Status	System Health Status Detected problem
IBM X3650 M2	Device Connection	Device disconnected or network problem
	System Health Status	System Health Status Detected problem

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Stratus ft Server	Device Connection	Device disconnected
	System Health Status	System Health Status Detected problem
ABB Power Server	System global Status	System Global Status is not OK
	Fan 1 Status	Fan 1 Failure
	Fan 2 Status	Fan 2 Failure
	Fan 3 Status	Fan 3 Failure
	Fan 4 Status	Fan 4 Failure
	Fan 5 Status	Fan 5 Failure
	Power Supply 1 Status	Power Supply 1 failure
	Power Supply 2 Status	Power Supply 2 failure
	Physical Merory Array 1 Status	Physical Memory Array 1 Failure
	Physical Merory Array 2 Status	Physical Memory Array 2 Failure
	Processor 1 Status	Processor 1 Encountered problem
	Processor 2 Status	Processor 2 Encountered problem

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB Power Server	System global Status	System Global Status is not OK
	Fan 1 Status	Fan 1 Failure
	Fan 2 Status	Fan 2 Failure
	Fan 3 Status	Fan 3 Failure
	Fan 4 Status	Fan 4 Failure
	Fan 5 Status	Fan 5 Failure
	Fan 6 Status	Fan 6 Failure
	Fan 7 Status	Fan 7 Failure
	Fan 8 Status	Fan 8 Failure
	Power Supply 1 Status	Power Supply 1 failure
	Power Supply 2 Status	Power Supply 2 failure
	Physical Merory Array Status	Physical Memory Array Failure
	Processor Status	Processor Encountered problem
Generic Computer Node	Device Connection	Device disconnected
	Physical Drive Status	Physical drive status is not Ok
	ProcessHealth	The CPU Load is above warning Limit
		The CPU Load is above Error Limit

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Generic Computer Node	ProcessHealth	Computer Has Exceeded the VM warning Limit
		Computer Has Exceeded the VM Error Limit
	ProcessHealth	Computer has Exceeded the VM trend warning Limit
		Computer has Exceeded the VM trend Error Limit
	ProcessHealth	Computer has Exceeded the Handle Count Warning Limit
		Computer has Exceeded the Handle Count Error Limit
	ProcessHealth	Computer has Exceeded the Thread Count Warning Limit
		Computer has Exceeded the Thread Count Error Limit
	ProcessHealth_EX	Free Space of the physical memory is below warning limit
		Free Space of the physical memory is below Error limit
	ProcessHealth_EX	Free Space of the Logical Disk is below warning limit
		Free Space of the Logical Disk is below Error limit

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Remote Computer Node	Device Connection	Device disconnected
	ProcessHealth_SNMP	Free Space of the physical memory is below warning limit
		Free Space of the physical memory is below Error limit
		Free Space of the Logical Disk is below warning limit
		Free Space of the Logical Disk is below Error limit
Generic Network Interface	Device Connection	Device disconnected
	Device Status	Device Encountered a problem
Network utilization	Device Connection	Device disconnected
Node to Node Utilization	Device Connection	Device disconnected
Single Node utilization	Device Connection	Device disconnected
Printer	Device Connection	Device disconnected
	Device Status	Device Encountered a problem
Remote Computer Process	Device Connection	Device disconnected
	Process Status	Process is not running

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Phoenix M-GUARD GT-GT	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Source A	Power Supply A is disconnected
	Source B	Power Supply B is disconnected
Phoenix M-GUARD RS-4000	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Source A	Power Supply A is disconnected
	Source B	Power Supply B is disconnected
UPS	Device Connection	Device disconnected
	Alarm Status	One of mote active alarm present in UPS
Hirschmann BAT-R	Device Connection	Device disconnected
Hirschmann BAT54	Device Connection	Device disconnected
Workstation	Device Connection	Device disconnected

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP Workstation	Device Connection	Device disconnected
	HP State	CPU Fan Speed Reached CautionLimit
	HP State	CPU Fan Speed Reached CriticalLimit
	HP State	Rear Chassis Fan Speed Reached CautionLimit
	HP State	Rear Chassis Fan Speed Reached CriticalLimit
	HP State	CPU Temperature Reached CautionLimit
	HP State	CPU Temperature Reached CriticalLimit
	HP State	System Ambient Temperature Reached CautionLimit
	HP State	System Ambient Temperature Reached CriticalLimit
ABB AFF 650	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Switch Port Status	Individual Port Status
Hirschmann EAGLE20	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Hirschmann EAGLE30	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
CISCO 12-24-48 Port switch	Cisco switch port status	Monitors the connection between the node and device. Triggers an alarm when device is disconnected from the network.
	Cisco switch port status	Individual Port Status
Cisco 2960	Power aSupply system status	Power Supply system failure.
	Overal Port Fault Status	Status of one or mote port are not OK
	Fan and Temperature Status	Fan and Temperature status is not OK
	Device Connection	Device disconnected
Cisco 3750	Power Supply system 1	Power Supply system failure.
	Power Supply system 2	Power Supply system failure.
	Overal Port Fault Status	Status of one or mote port are not OK
	Fan and Temperature Status	Fan and Temperature status is not OK
	Cisco 3750 switch port status	Monitors the connection between the node and device. Triggers an alarm when device is disconnected from the network.
	Cisco 3750 switch port status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Cisco IE 3000	Device Connection	Device disconnected
	Major Alarm	One or more major alarm present in switch
	Minor Alarm	One or more minor alarm present in switch
Dell Power Connect 2824	Device Connection	Device disconnected
	Dell Port Status	Listed Ports reported status down
	Dell Switch Global State	Non Critical fault occurred
	Dell Switch Global State	Critical fault occurred
Dell Power Connect 3524	Device Connection	Device disconnected
	Dell Port Status	Individual Port Status
	Source A	Power Supply A is disconnected
	Source B	Power Supply B is disconnected
Dell Power Connect 7024	Device Connection	Device disconnected
	Dell Port Status	Individual Port Status
	Source A	Power Supply A is disconnected
	Source B	Power Supply B is disconnected
GarrettCom Magnm 6k32T	Device Connection	Device disconnected
	Alarm Status	One or more Alarm are present in the switch

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Harting HAVIS 3000	Harting Switch Port Status	Monitors the connection between the node and device. Triggers an alarm when device is disconnected from the network.
	Harting Switch Port Status	Individual Port Status
Hirschmann MACH 100	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann MACH 104	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann MACH 104	Device Connection	Device disconnected
	Signal Contact 1	The Status of alarm contract 1 is "open"
	Signal Contact 2	The Status of alarm contract 2 is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann MACH 4000	Device Connection	Device disconnected
	Signal Contact 1	The Status of alarm contract 1 is "open"
	Signal Contact 2	The Status of alarm contract 2 is "open"
	Hirschmann Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Hirschmann MAR 10x0	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann MAR 1040	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann MS20 MS30	Device Connection	Device disconnected or network problem
	Signal Contact 1	The Status of alarm contract 1 is "open"
	Signal Contact 2	The Status of alarm contract 2 is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann MS4128	Device Connection	Device disconnected
	Signal Contact 1	The Status of alarm contract 1 is "open"
	Signal Contact 2	The Status of alarm contract 2 is "open"
	Hirschmann Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Hirschmann MSP30	Device Connection	Device disconnected
	Signal Contact 1	The Status of alarm contract 1 is "open"
	Signal Contact 2	The Status of alarm contract 2 is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann RS2	Device Connection	Device disconnected
	power Supply-1	The Status of Power Supply 1 is not Installed
	power Supply-2	The Status of Power Supply 2 is not Installed
	Port-1 Operating Status	The Status of Port 1 is "down"
	Port-2 Operating Status	The Status of Port 2 is "down"
	Port-3 Operating Status	The Status of Port 3 is "down"
	Port-4 Operating Status	The Status of Port 4 is "down"
	Port-5 Operating Status	The Status of Port 5 is "down"
	Port-6 Operating Status	The Status of Port 6 is "down"
Hirschmann RS2	Port-7 Operating Status	The Status of Port 7 is "down"
Hirschmann RS20 RS30	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Hirschmann RS40	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann RSP25	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann RSP30	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann RSPS20	Device Connection	Device disconnected
	Signal Contact	The Status of alarm contract is "open"
	Hirschmann Switch Port Status	Individual Port Status
Hirschmann RSR20 RSR30	Device Connection	Device disconnected
	Signal Contact 1	The Status of alarm contract 1 is "open"
	Signal Contact 2	The Status of alarm contract 2 is "open"
	Hirschmann Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
HP Procurve 2610	Device Connection	Device disconnected
	Switch Status	Device Status is not OK
	Switch Port Status	Individual Port Status
Microsens MS650869M	Device Connection	Device disconnected
	Power Supply system status	Power Supply system failure.
	Microsense Switch Port Status	Individual Port Status
MOXA EDS 405A	Device Connection	Device disconnected
	Relay Contact	The Status of relay contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS 408A	Device Connection	Device disconnected
	Relay Contact	The Status of relay contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS 505A	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
MOXA EDS 508A	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS 510A	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS 516A	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS 518A	Device Connection	Device disconnected or network problem
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
MOXA EDS 728	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS 828	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS G509	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status
MOXA EDS P510	Device Connection	Device disconnected
	Relay 1 Contact	The Status of relay 1 contact is "Open"
	Relay 2 Contact	The Status of relay 2 contact is "Open"
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
N-Tron 708	Device Connection	Device disconnected
	Contact Status	The Status of the contact is "closed"
	Switch Port Status	Individual Port Status
Phoenix FL SMC 6GT	Device Connection	Device disconnected
	Alarm Contact	The Status of alarm contact is "open"
	Switch Port Status	Individual Port Status
Phoenix MMS MCS	Device Connection	Device disconnected
	Alarm Contact	The Status of alarm contact is "open"
	Switch Port Status	Individual Port Status
Ruggedcom RS9000 RS 2100	Device Connection	Device disconnected
	Relay Contact Status	Relay contact is energized
	Switch Port Status	Individual Port Status
Sixnet SLX8MG	Device Connection	Device disconnected
	Relay Contact Status	Relay contact is off
	Switch Port Status	Individual Port Status
Weidmuller IE SW 16M	Device Connection	Device disconnected
	Switch Fault Status	The Status of Switch is "fault"
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Weidmuller IE SW 6 2STM	Device Connection	Device disconnected
	Switch Fault Status	The Status of Switch is "fault"
	Switch Port Status	Individual Port Status
Weidmuller IE SW PL08M	Device Connection	Device disconnected
	Relay Contact 1	The Status of relay contact 1 is "open"
	Relay Contact 2	The Status of relay contact 2 is "open"
	Switch Port Status	Individual Port Status
Weidmuller IE SW PL09M	Device Connection	Device disconnected
	Relay Contact 1	The Status of relay contact 1 is "open"
	Relay Contact 2	The Status of relay contact 2 is "open"
	Switch Port Status	
Weidmuller IE SW PL10M	Device Connection	Device disconnected or network problem
	Relay Contact 1	The Status of relay contact 1 is "open"
	Relay Contact 2	The Status of relay contact 2 is "open"
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
Weidmuller IE SW PL18M	Device Connection	Device disconnected
	Relay Contact 1	The Status of relay contact 1 is "open"
	Relay Contact 2	The Status of relay contact 2 is "open"
	Switch Port Status	Individual Port Status
Weidmuller IE SW PL18M	Device Connection	Device disconnected
	Relay Contact	The Status of relay contact is "open"
	Switch Port Status	Individual Port Status
Westermo Lynx L+210	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status
Westermo OnTime Lynx	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status
Westermo OnTime R200	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status
Westermo OnTime T200	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
WestermoRedFox RFI10P	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status
Westermo Viper X12	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status
Westermo Wolverine DDW-25	Device Connection	Device disconnected
	SummaryAlarmStatus	Device Status is not OK
	Switch Port Status	Individual Port Status

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 10P-2FG	Device Connection	Device disconnected
	Port-1 Packets	Packets Per Sec Alarm Limit Reached
	Port-1 Packets	Packets Per Sec Warning Limit Reached
	Port-1 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-1 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2 Packets	Packets Per Sec Alarm Limit Reached
	Port-2 Packets	Packets Per Sec Warning Limit Reached
	Port-2 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2 Input Error Rate	Input Error Rate Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 10P-2FG	Port-3 Packets	Packets Per Sec Alarm Limit Reached
	Port-3 Packets	Packets Per Sec Warning Limit Reached
	Port-3 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-4 Packets	Packets Per Sec Alarm Limit Reached
	Port-4 Packets	Packets Per Sec Warning Limit Reached
	Port-4 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-4 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-5 Packets	Packets Per Sec Alarm Limit Reached
	Port-5 Packets	Packets Per Sec Warning Limit Reached
	Port-5 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-5 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-6 Packets	Packets Per Sec Alarm Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 10P-2FG	Port-6 Packets	Packets Per Sec Warning Limit Reached
	Port-6 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-6 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-7 Packets	Packets Per Sec Alarm Limit Reached
	Port-7 Packets	Packets Per Sec Warning Limit Reached
	Port-7 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-7 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-8 Packets	Packets Per Sec Alarm Limit Reached
	Port-8 Packets	Packets Per Sec Warning Limit Reached
	Port-8 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-8 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-9 Packets	Packets Per Sec Alarm Limit Reached
	Port-9 Packets	Packets Per Sec Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 10P-2FG	Port-9 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-9 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-10 Packets	Packets Per Sec Alarm Limit Reached
	Port-10 Packets	Packets Per Sec Warning Limit Reached
	Port-10 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-10 Input Error Rate	Input Error Rate Warning Limit Reached
ABB DiMa 19P-4FG-7RG	Device Connection	Device disconnected
	Port-1/1 Packets	Packets Per Sec Alarm Limit Reached
	Port-1/1 Packets	Packets Per Sec Warning Limit Reached
	Port-1/1 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-1/1 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-1/2 Packets	Packets Per Sec Alarm Limit Reached
	Port-1/2 Packets	Packets Per Sec Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

| PNSM libraryt | Short message
Short description of the system alarm | Long message
Extended message of the system alarm |
|---|---|---|
| ABB DiMa 19P-4FG-7RG | Port-1/2 Input Error Rate | Input Error Rate Alarm Limit Reached |
| | Port-1/2 Input Error Rate | Input Error Rate Warning Limit Reached |
| | Port-1/3 Packets | Packets Per Sec Alarm Limit Reached |
| | Port-1/3 Packets | Packets Per Sec Warning Limit Reached |
| | Port-1/3 Input Error Rate | Input Error Rate Alarm Limit Reached |
| | Port-1/3 Input Error Rate | Input Error Rate Warning Limit Reached |
| | Port-2/1 Packets | Packets Per Sec Alarm Limit Reached |
| | Port-2/1 Packets | Packets Per Sec Warning Limit Reached |
| | Port-2/1 Input Error Rate | Input Error Rate Alarm Limit Reached |
| | Port-2/1 Input Error Rate | Input Error Rate Warning Limit Reached |
| | Port-2/2 Packets | Packets Per Sec Alarm Limit Reached |
| | Port-2/2 Packets | Packets Per Sec Warning Limit Reached |
| | Port-2/2 Input Error Rate | Input Error Rate Alarm Limit Reached |

Table 6. PNSM Device Libraries - System Alarms (Continued)

| PNSM libraryt | Short message
Short description of the system alarm | Long message
Extended message of the system alarm |
|---|---|---|
| ABB DiMa 19P-4FG-7RG | Port-2/2 Input Error Rate | Input Error Rate Warning Limit Reached |
| | Port-2/3 Packets | Packets Per Sec Alarm Limit Reached |
| | Port-2/3 Packets | Packets Per Sec Warning Limit Reached |
| | Port-2/3 Input Error Rate | Input Error Rate Alarm Limit Reached |
| | Port-2/3 Input Error Rate | Input Error Rate Warning Limit Reached |
| | Port-2/4 Packets | Packets Per Sec Alarm Limit Reached |
| | Port-2/4 Packets | Packets Per Sec Warning Limit Reached |
| | Port-2/4 Input Error Rate | Input Error Rate Alarm Limit Reached |
| | Port-2/4 Input Error Rate | Input Error Rate Warning Limit Reached |
| | Port-2/5 Packets | Packets Per Sec Alarm Limit Reached |
| | Port-2/5 Packets | Packets Per Sec Warning Limit Reached |
| | Port-2/5 Input Error Rate | Input Error Rate Alarm Limit Reached |
| | Port-2/5 Input Error Rate | Input Error Rate Warning Limit Reached |

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 19P-4FG-7RG	Port-2/6 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/6 Packets	Packets Per Sec Warning Limit Reached
	Port-2/6 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/6 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/7 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/7 Packets	Packets Per Sec Warning Limit Reached
	Port-2/7 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/7 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/8 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/8 Packets	Packets Per Sec Warning Limit Reached
	Port-2/8 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/8 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/1 Packets	Packets Per Sec Alarm Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 19P-4FG-7RG	Port-3/1 Packets	Packets Per Sec Warning Limit Reached
	Port-3/1 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/1 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/2 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/2 Packets	Packets Per Sec Warning Limit Reached
	Port-3/2 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/2 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/3 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/3 Packets	Packets Per Sec Warning Limit Reached
	Port-3/3 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/3 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/4 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/4 Packets	Packets Per Sec Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 19P-4FG-7RG	Port-3/4 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/4 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/5 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/5 Packets	Packets Per Sec Warning Limit Reached
	Port-3/5 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/5 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/6 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/6 Packets	Packets Per Sec Warning Limit Reached
	Port-3/6 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/6 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/7 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/7 Packets	Packets Per Sec Warning Limit Reached
	Port-3/7 Input Error Rate	Input Error Rate Alarm Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB DiMa 19P-4FG-7RG	Port-3/7 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/8 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/8 Packets	Packets Per Sec Warning Limit Reached
	Port-3/8 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/8 Input Error Rate	Input Error Rate Warning Limit Reached
ABB RaMa 19P-4FG-7RG	Device Connection	Device disconnected
	Port-1/1 Packets	Packets Per Sec Alarm Limit Reached
	Port-1/1 Packets	Packets Per Sec Warning Limit Reached
	Port-1/1 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-1/1 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-1/2 Packets	Packets Per Sec Alarm Limit Reached
	Port-1/2 Packets	Packets Per Sec Warning Limit Reached
	Port-1/2 Input Error Rate	Input Error Rate Alarm Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB RaMa 19P-4FG-7RG	Port-1/2 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-1/3 Packets	Packets Per Sec Alarm Limit Reached
	Port-1/3 Packets	Packets Per Sec Warning Limit Reached
	Port-1/3 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-1/3 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/1 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/1 Packets	Packets Per Sec Warning Limit Reached
	Port-2/1 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/1 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/2 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/2 Packets	Packets Per Sec Warning Limit Reached
	Port-2/2 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/2 Input Error Rate	Input Error Rate Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB RaMa 19P- 4FG-7RG	Port-2/3 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/3 Packets	Packets Per Sec Warning Limit Reached
	Port-2/3 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/3 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/4 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/4 Packets	Packets Per Sec Warning Limit Reached
	Port-2/4 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/4 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/5 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/5 Packets	Packets Per Sec Warning Limit Reached
	Port-2/5 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/5 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/6 Packets	Packets Per Sec Alarm Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB RaMa 19P-4FG-7RG	Port-2/6 Packets	Packets Per Sec Warning Limit Reached
	Port-2/6 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/6 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/7 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/7 Packets	Packets Per Sec Warning Limit Reached
	Port-2/7 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/7 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-2/8 Packets	Packets Per Sec Alarm Limit Reached
	Port-2/8 Packets	Packets Per Sec Warning Limit Reached
	Port-2/8 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-2/8 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/1 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/1 Packets	Packets Per Sec Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB RaMa 19P-4FG-7RG	Port-3/1 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/1 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/2 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/2 Packets	Packets Per Sec Warning Limit Reached
	Port-3/2 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/2 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/3 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/3 Packets	Packets Per Sec Warning Limit Reached
	Port-3/3 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/3 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/4 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/4 Packets	Packets Per Sec Warning Limit Reached
	Port-3/4 Input Error Rate	Input Error Rate Alarm Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB RaMa 19P-4FG-7RG	Port-3/4 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/5 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/5 Packets	Packets Per Sec Warning Limit Reached
	Port-3/5 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/5 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/6 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/6 Packets	Packets Per Sec Warning Limit Reached
	Port-3/6 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/6 Input Error Rate	Input Error Rate Warning Limit Reached
	Port-3/7 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/7 Packets	Packets Per Sec Warning Limit Reached
	Port-3/7 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/7 Input Error Rate	Input Error Rate Warning Limit Reached

Table 6. PNSM Device Libraries - System Alarms (Continued)

PNSM libraryt	Short message Short description of the system alarm	Long message Extended message of the system alarm
ABB RaMa 19P-4FG-7RG	Port-3/8 Packets	Packets Per Sec Alarm Limit Reached
	Port-3/8 Packets	Packets Per Sec Warning Limit Reached
	Port-3/8 Input Error Rate	Input Error Rate Alarm Limit Reached
	Port-3/8 Input Error Rate	Input Error Rate Warning Limit Reached

800xA for Harmony

Table 7. 800xA for Harmony - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
-	2	The RTD has been informed of a low resource condition. Consult syslog.log for detailed info	-

800xA for MOD 300

Diagnostic Messages from the MOD 300 controllers are the only System Alarms generated in 800xA for MOD 300. Refer the *Diagnostic Error Messages (3BUR 000 261R0501)* user manual for more information. The information in the *Diagnostic Error Messages (3BUR 000 261R0501)* is mapped to the System 800xA Alarm message attributes as follows:

Component: (blank)

Priority Level: Events are marked with one of 5 severities which are described in the reference document in the section *MOD 300 Error Message Format*. These map into an OPCAE severity in the MOD AE server, which is then mapped to a priority via the Alarm Priority Mapping aspect in the Library structure. The severities and their default priority mapping are as follows:

•   F -> Severity: 750 -> Priority: 1

•   E -> Severity: 750 -> Priority: 1

•   W -> Severity: 500 -> Priority: 2

•   S -> Severity: 250 -> Priority: 3

•   I -> Severity: 250 -> Priority: 3

Short Message: TEXT field from the referenced user manual

Long Message: (blank)

800xA for AC 100

Table 8. 800xA for AC 100 - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
AC 100 Communication Module	4	System Error RC1 - Redund cable 1 fail	Redund cable 1 failure
AC 100 Communication Module	4	System Error RC2 - Redund cable 2 fail	Redund cable 2 failure
AC 100 Communication Module	4	System Error VFI - Communicat. Failure	Communication error reported
AC 100 I/O Module	4	System Error PEE - I/O device failure	I/O device error occurred
AC 100 I/O Module	4	System Error PRE - I/O process error	I/O process error occurred
AC100 Processor Module	4	System Error ACT - PC program blocked	The application is stopped
AC100 Processor Module	4	System Error SE - Fatal SW error	Fatal software error
AC100 Processor Module	4	System Error HWE - Minor HW error	Nonfatal hardware error
AC100 Processor Module	4	System Error SWE - SW error	Software error
AC100 Processor Module	1	System Error PNA - PM not accessible	The module is not accessible
AC100 Processor Module	4	System Error GE - General error	General startion error

Table 8. 800xA for AC 100 - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
AC100 Processor Module	4	System Error GW - General warning	General station warning
AC100 Processor Module	4	System Error TJ - TimeSynch jitter	Time synchronization failure
AC100 Processor Module	4	System Error AVC_AC - AVC: BCD unequal AC	The application in controller and BCD file is unequal
AC100 Processor Module	4	System Error AVC_BCD - AVC: OPC uneq BCD	The application in OPC server and BCD file is unequal. Restart the OPC Server

800xA for Advant Master

Table 9. 800xA for Advant Masters - System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
AdvDsMasterAdapter	1	Failed to create RTA Management Handler	The 800xA for Advant Master data service failed to connect to the RTA board Server. This indicates that no data from the controller(s) will be available through this Connectivity Server Node.
AdvDsMasterAdapter	1	Failed to initialize	Could not start the 800xA for Advant Master data service due to severe problems in the system. This indicates that no data from the controller(s) will be available through this Connectivity Server Node.
AdvMbAeOPCServer	1	No nodes available on MB300 network	No contact with the controller(s) on the MB 300 network. This indicates that no data from the controller(s) will be available through this Connectivity Server Node.
AdvMbTTDSrv	2	Failed to send data to client	The 800xA for AC 400 TTD Server has lost contact with a History Server. This indicates that no history data from the controller(s) will be logged from this Connectivity Server Node.
RTA_ManagementServer	1	RTA Board failed (stall) or RTA Board failed (connection lost)	The RTA Management Server has lost contact with the RTA board. This indicates that no data from the controller(s) will be available through this Connectivity Server Node.

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
RTA_ManagementServer	1	RTA Board startup failed	This indicates that no data from the controller(s) will be available through this Connectivity Server Node.
RTA_ManagementServer	1	RTA Board startup failed (Network address not set)	This indicates that the Node and network address has not been configured on the RTA Board. No data from the controller(s) will be available through this Connectivity Server Node unless the address is set on the RTA Board.
RTA_ManagementServer	1	RTA Board Server stopped	The RTA Management Server has stopped
RTA_ManagementServer	2	PU410 line 1 connection lost	The connection to PU410 via Line 1 is lost
RTA_ManagementServer	2	PU410 line 2 connection lost	The connection to PU410 via Line 2 is lost
Controller	3	CLOCKSYNCH - Channels not found	Clock synch channels not found
Controller	3	CLOCKSYNCH - Failed to select clock master	Failed to select clock master node
Controller	3	CLOCKSYNCH - More than one clock master	There might be more than one backup node. Set time again!
Controller	3	CLOCKSYNCH - Set time!	There might be more than one backup node. Set time again!

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	CPU STATUS - Auto CPU switch	AC450 processor module redundancy switch over. No redundancy!
Controller	3	CPU STATUS - Error in CPU	AC450. The redundant processor module has stopped. No redundancy!
Controller	3	DEV ST - nn	Error in external device such as printers
Controller	3	FAN for CPU faulty	Fan in central rack is faulty
Controller	3	FAN for CPU working	Fan is OK again
Controller	3	FAN for I/O faulty	Fan in I/O rack is faulty
Controller	3	FANS for I/O working	Fan is OK again
Controller	3	FIELDBUS - Bus controller error Bus x	Error in field bus controller
Controller	3	FIELDBUS - Bus controller OK Bus x	Field bus controller is OK
Controller	3	FIELDBUS - Bus error. Err=x	The field bus controller has one or more system errors
Controller	3	FIELDBUS - Cable x broken Bus y	Redundant field bus cable broken
Controller	3	FIELDBUS - Cable x broken Bus y Stn z	The I/O station reports that a cable is broken

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	FIELDBUS - Cable x OK Bus y	Redundant field bus cable OK
Controller	3	FIELDBUS - Cable x OK Bus y Stn z	The I/O station reports that a cable is OK
Controller	3	FIELDBUS - Device error. Err=x	The I/O station has one or more system errors
Controller	3	FIELDBUS - Event queue full	Process events from fieldbus may have been lost due to full queue
Controller	3	FIELDBUS - Fatal bus error	Field bus fatal error, either modem or cable error
Controller	3	FIELDBUS - Missing controller Bus x	Field bus controller is missing
Controller	3	FIELDBUS - Module error bx sy pz	The I/O module on bus x station y and position z is faulty
Controller	3	FIELDBUS - Module OK bx sy pz	The I/O module on bus x station y and position z is OK again
Controller	3	FIELDBUS - Module warning bx sy pz	The I/O module on bus x station y and position z has a warning
Controller	3	FIELDBUS - New primary CI bx my	New primary redundant CI522 board
Controller	3	FIELDBUS - New primary station bx sy	Redundant I/O station changeover

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	FIELDBUS - No access to Stn x Bus y	No contact with fieldbus station
Controller	3	FIELDBUS - Power supply A/B error bx sy	The I/O station has reported a power supply is OK again
Controller	3	FIELDBUS - Power supply A/B OK bx sy	The I/O station has reported a power supply error
Controller	3	FIELDBUS - PowSupp x error Bus y Stn z	The I/O station reports power supply error
Controller	3	FIELDBUS - PowSupp x OK Bus y Stn z	The I/O station reports power supply OK
Controller	3	FIELDBUS - Red. Stn Error bx sy	One or both redundant I/O stations (CI82x) are faulty
Controller	3	FIELDBUS - Red. Stn OK bx sy	The redundant I/O station is OK again
Controller	3	FIELDBUS - Stn x error bus y	Error in field bus station
Controller	3	FIELDBUS - Stn x OK bus y	Field bus station is OK
Controller	3	FPM - PU535 pos x y error	Module PU535 is out of order
Controller	3	FPM - PU535pos x y working	Module PU535 is back in order

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	LAN - Ch x cable fault dist y m	MAC: Cable fault (distance in meter to suspected cable fault)
Controller	3	LAN - MAC Checksum error ch x	MAC: Checksum error i received frame
Controller	3	LAN - MAC Collition error ch x	MAC: Late collition while transmitting frame
Controller	3	LAN - MAC Init error ch x	MAC controller failed to initialize
Controller	3	LAN - MAC Loss of carrier ch x	MAC: Loss of carrier in specified channel
Controller	3	LAN - MAC Tranceiv error ch x	MAC: Tranciever Hart beat error
Controller	3	MFB STATUS - Both cables broken Bus x	Both redundant field bus cables broken
Controller	3	MFB STATUS - Both cables OK Bus x	Both redundant field bus cables OK
Controller	3	MFB STATUS - Bus Controller error Bus x	Bus Controller (CI570) error
Controller	3	MFB STATUS - Bus Controller OK Bus x	Bus Controller OK

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	MFB STATUS - Cable x broken Bus y	Redundant field bus cable broken
Controller	3	MFB STATUS - Cable x OK Bus y	Redundant field bus cable OK
Controller	3	MISC ST - DSDP board failed	Fatal error while accessing pulse counter board
Controller	3	MISC ST - DSDP board working	Board OK
Controller	3	MISC ST - FPB board error	Error in Free Programmable Module, PU535
Controller	3	MISC ST - FPB board failed	PU535 failed
Controller	3	MISC ST - FPB board working	PU535 OK
Controller	3	MISC ST - MISC BOARDS full	No free DB elements "Misc Boards" could be found
Controller	3	MISC ST - SEQ database not found	The PC element SEQ could not find its DB element
Controller	3	MN COMM - Board [not] working pos x x	A communication board in specified position is faulty / not faulty
Controller	3	MN STATUS - Bus x node y channel A/B OK	Master Field Bus communication is OK again

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	MN STATUS - Conn. Lost netw/node x y	Connection to a Master Net node is lost
Controller	3	MN STATUS - Conn. With netw/node x y	A Master Net node is reconnected
Controller	3	MN STATUS - Error bus x node y chan. A/B	Redundant Master Field Bus communication error
Controller	3	MN STATUS - No com with node x	No connection with a Master Net node
Controller	3	MVI - Conn. With netw/node x, y	MVI node x,y is connected again
Controller	3	PCB STATUS - Bus extender error	CI540 error
Controller	3	PCB STATUS - Bus extender OK	CI540 is OK
Controller	3	PCFx error	User defined errors. See DB element AC450_1/AC410_1, section S4
Controller	3	PCFx signal OK	User defined error is OK
Controller	3	POW & REF - error in FI/GI board	Error found in FI/GI board
Controller	3	POW SUPP ST - 24V I/O supply A/B faulty	24V I/O power supply is faulty

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	POW SUPP ST - 24V I/O supply A/B working	24V I/O power supply is OK
Controller	3	POW SUPP ST - 24V supply A/B faulty	24V power supply is faulty
Controller	3	POW SUPP ST - 24V supply A/B working	24V power supply is OK
Controller	3	POW SUPP ST - Battery Backup x faulty	Error on battery backup
Controller	3	POW SUPP ST - Battery Backup x working	Battery backup OK
Controller	3	POW SUPP ST - Battery Charger x faulty	Error in battery charger
Controller	3	POW SUPP ST - Battery Charger x working	Battery charger OK
Controller	3	POW SUPP ST - I/O Voltage regulator missing	Error in I/O voltage regulator
Controller	3	POW SUPP ST - I/O Voltage regulators faulty	Error in I/O voltage regulator

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	POW SUPP ST - I/O Voltage regulators working	AC 400 I/O power supply is OK
Controller	3	POW SUPP ST - TC520 error	Error found when accessing supervision unit TC520 board
Controller	3	POW SUPP ST - Voltage regulator missing	Error in voltage regulator
Controller	3	POW SUPP ST - Voltage regulators faulty	Error in voltage regulator
Controller	3	POW SUPP ST - Voltage regulators present	AC 400 power supply is OK
Controller	3	POW SUPP ST - Voltage regulators working	AC 400 power supply is OK
Controller	3	POW SUPPLY - error FI/GI board	Error found in FI/GI board
Controller	3	PROC I/O ST - XX board error	Fatal error in process I/O board of type "XX"
Controller	3	PROC I/O ST - XX board working	I/O board is OK after preceding error
Controller	3	PROC I/O ST - xx-function lost	"Function lost" reported from AX Redundant board
Controller	3	PROGRAM CARD - Correct card x y	The program card specified is OK

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	PROGRAM CARD - Memory error x y	The program card specified is faulty
Controller	3	PROGRAM CARD - Missing card x y	The program card specified is not accessible
Controller	3	PROGRAM CARD - Wrong card x y	Wrong program card is inserted
Controller	3	REF VOLT OK - GI/FI board	FI/GI board is OK again
Controller	3	REF VOLTAGE - error GI/FI-board	Error found in FI/GI board
Controller	3	REM I/O ST - Bus x node y working	Communication is OK after preceding error
Controller	3	REM I/O ST - Error in bus controller	Error in Master field bus module (CI570)
Controller	3	REM I/O ST - Error in bus x node y	Error in Master Field Bus communication to specified node
Controller	3	S100I/O BUS EXT - BE x L/R Board Failure	Fatal error in S100 Bus extender DSBC174
Controller	3	S100I/O BUS EXT - BE x L/R Fan Failed	S100 Bus extender DSBC174 fan fail
Controller	3	S100I/O BUS EXT - BE x L/R Regulator Failed	S100 Bus extender DSBC174 regulator failed

Table 9. 800xA for Advant Masters - System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended description of the system alarm
Controller	3	S100I/O BUS EXT - BE x L/R Regulator Missing	S100 Bus extender DSBC174 regulator is missing
Controller	3	S100I/O BUS EXT - BE x L/R Working	S100 Bus extender DSBC174 is OK
Controller	3	S100I/O BUS EXT - BE x y Working	The S100 Bus extender is OK again
Controller	3	S100I/O BUS EXT - DSBC174 error	DSBC174 internal error, may cause a CPU change-over
Controller	3	S100I/O BUS EXT - Lost Contact with BE x R/L	No contact with S100 Bus extender DSBC174
Controller	3	S100I/O BUS EXT - Manually Stopped BE x L/R	DSBC174 is manually stopped
Controller	3	TIME SYNCH - Clock drift out of range	Time is not synchronized
Controller	3	TIME SYNCH - No synch pulse available	There is no time synchronization master on the bus
Controller	3	User defined error x	User defined errors. See DB element AC450_1/AC410_1, section S4

800xA for AC 870P/Melody

Table 10. 800xA for AC 870P/Melody: System Alarms

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Task processing failure	While processing a task an error occurred.
Melody controller	1	Appl.-Task stopped	In a user task an error has occurred. The affected task can t be executed anymore and has been stopped. On modules of type PM 875 and CMC 70 only one task part will be stopped. All other task parts
Melody controller	2	Failure of n subscribers SA/L bus	An operating system error has been detected.
Melody controller	1	Message-transmit-queue full	Due to an overload of the module or of the bus messages (e.g. parameterizing, loading, messages) cant be transmitted in real time.
Melody controller	1	Message-receive-queue full	Due to an overload of the module or of the bus messages (e.g. parameterizing, loading, messages) can t be transmitted in real time.
Melody controller	2	Unknown object entered for BISOL	This error can only occur during the start of a module. The module has detected errors during initialization of the base functions.
Melody controller	3	Watchdog failure	On each module there is a type of hardware called watchdog that has to monitor the CPU. The CPU itself monitors the correct watchdog function. In this case the CPU has detected that the watchdog doesn't work faultless anymore.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	3	Parity-logic failure	During each RAM access a special hardware circuit, the parity logic, checks whether the data that have been read are correct. The parity logic itself is cyclically checked by the CPU. In this case the CPU detected that the parity logic is out of order. The module is still OK but an important monitoring function failed.
Melody controller	3	Monitoring of non-existing memory failure	A special interrupt detects when the module is trying to access a not-existing memory area. The interrupt is cyclically checked by the CPU. In this case the CPU detected an error for this interrupt.
Melody controller	3	Mon. of write-protected memory failure	In a module there are certain data that should not be modified during normal program execution. These data are saved in a memory area that is prohibited for writing access. If a program tries to write this prohibited memory area then a special interrupt will detect that. The CPU itself cyclically checks the monitoring function. In this case the CPU detected that the monitoring function failed. The module is still OK but an important monitoring function failed.
Melody controller	3	Max. number of flash-update achieved	The maximum number of Flash programming cycles has been reached.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	3	Exchange NV-RAM of the module	The maximum number of NVRAM-write-cycles has been reached. (In that case a write cycle is a voltage breakdown because only in that case the non-volatile area will be written).
Melody controller	3	Interface failure SSx (frontpanel)	The connection to the Engineering system via front panel is disturbed.
Melody controller	3	Transmission failure SSx (frontpanel)	The connection to the Engineering system via front panel interface is disturbed.
Melody controller	3	SSx; message buffer full	The connection to the Engineering system via front panel interface is disturbed.
Melody controller	1	Cnet(C) failure of n subscribers	Cnet(C) Failure of n subscribers Cnet(O2) Failure of n subscribers All subscribers in the AB0-bus-subscriber list are disturbed. Possible error cause may be: - all other modules on the AB0-bus are really disturbed - the AB0-bus interface of the module is defective - the connection to the other subscribers is defective - If there are 2 subscribers in total and one of them is disturbed.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Cnet(SC) failure of n subscribers	Cnet(O) Failure of n subscribers Cnet(O1) Failure of n subscribers Cnet(SC) Failure of n subscribers All subscribers in the SC/O-bus-subscriber list are disturbed. Possible error cause may be: - all other modules on the SC/O-bus are really disturbed - the SC/O-bus interface of the module is defective - the connection to the other subscribers is defective
Melody controller	1	Cnet(C) failure of a unit	Cnet(C) Failure of a module Cnet(O2) Failure of a module The bus monitoring has detected a failure of a module on AB0. The message contains the mounting place position (EPC) of the disturbed module.
Melody controller	1	Cnet(SC) failure of a unit	Cnet(O) Failure of a module Cnet(O1) Failure of a module Cnet(SC) Failure of a module Cnet(SSC) Failure of a module The bus monitoring has detected a failure of a module on AB1. The message contains the mounting place position (EPC) of the disturbed module. In case that a module with 2 bus interfaces failed then there is a second message initiated from the second bus interface.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	2	Passive line disturbed	Only from Melody modules with predecessor bus interface: -0, -1 modules: On line B there is not any reception of master telegrams for > 2.5s. The error is a defective channel on the module or a failure in the bus system [bus cabling]. This bus line is then completely disturbed. Due to the bus line redundancy the correct function of the module / of the bus system is not affected. Because this monitoring can only detect total failures there is a cross over of the internal bus lines A and B on the mounting place 09. Thus the physical line B on this module is also monitored by the monitoring function of line A. For modules of type –2 (e.g.CMC60-2, CCO30-2 etc.) the bus line B is monitored by the same bus monitoring functionality like bus line A. This way an internal cross over of the bus lines is not necessary.
Melody controller	3	Transmission failure on active bus-line	May be sporadic disturbances based on: - improper bus line connections or - on environmental influences or - on a line break.
Melody controller	1	Error on communication-interface	An error for the Profibus-Interface, the Fnet-Interface or the Cnet-Interface has been detected that will not be indicated by another alarm. This error does not affect normal operation.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Error on communication-interface	An error for the Profibus-Interface, the Fnet-Interface or the Cnet-Interface has been detected that will not be indicated by another alarm. This error leads to the isolation of the corresponding interface.
Melody controller	1	Communication-interface failed	An error for the Profibus-Interface, the Fnet-Interface or the Cnet-Interface has been detected that will not be indicated by another alarm. This error leads to the isolation of the corresponding interface.
Melody controller	1	Communication-interface failed	An error for the Profibus-Interface, the Fnet-Interface or the Cnet-Interface has been detected that will not be indicated by another alarm. This error leads to the isolation of the corresponding interface.
Melody controller	1	Communication-interface failed	This alarm can only be initiated by hardware or software error on the Profibus interface.
Melody controller	1	Illegal interrupt	This alarm can only be initiated by a hardware error or a software error on the Profibus interface, the Fnet-Interface or the Cnet-Interface.
Melody controller	1	Watchdog active	This alarm can only be initiated by a hardware error or a software error on the Profibus interface, the Fnet-Interface or the Cnet-Interface.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Parity error	This alarm can only be initiated by a hardware error or a software error on the Profibus interface, the Fnet-Interface or the Cnet-Interface.
Melody controller	1	Memory check failure	It has been detected that a RAM cell in the Profibus interface, the Fnet interface or the Cnet interface is defective.
Melody controller	1	Busload > 90 %	It has been detected that the busload for the Profibus interface, the Fnet interface or the Cnet interface is higher than 90%.
Melody controller	1	Connection to Profibus failed	Failure of the connection or failure of all Profibus slaves of one line of the active (primary) Controller. The module executes a restart. If the error occurs three times within 10 minutes then the module isolates itself.
Melody controller	1	Connection to Profibus failed	The passive (backup) controller is the source of this message. The Profibus connection between the passive to the active (primary) controller has been failed.
Melody controller	1	No traffic on Profibus 0 line A	On Profibus 0 line A there is no bus traffic. (The line monitoring can be switched on or off in Composer) Possibly due to: - unplugged Profibus connector on plug ,DP0-A' - disconnected line A. - disconnection of the last slave on the line A.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	No traffic on Profibus 0 line B	On Profibus 0 line B there is no bus traffic. (The line monitoring can be switched on or off in Composer) Possibly due to: - unplugged Profibus connector on plug ‚DP0-B' - disconnected line B. - disconnection of the last slave on the line B.
Melody controller	1	No traffic on Profibus 1 line A	On Profibus 1 line A there is no bus traffic. (The line monitoring can be switched on or off in Composer) Possibly due to: - unplugged Profibus connector on plug ‚DP1-A' - disconnected line A. - disconnection of the last slave on the line A.
Melody controller	1	No traffic on Profibus 1 line B	On Profibus 1 line B there is no bus traffic. (The line monitoring can be switched on or off in Composer) Possibly due to: - unplugged Profibus connector on plug ‚DP1-B' - disconnected line B. - disconnection of the last slave on the line B
Melody controller	1	Flash memory - write error	The data cannot be written into the Flash memory of the module. This error can only occur during an update (boot loading) of a module.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Flash memory - erase error	The data cannot be erased in the Flash memory of the module. This error can only occur during an update (boot loading) of a module.
Melody controller	1	Flash memory - CRC error	The data in the Flash memory aren t correct anymore. The access to the Flash memory is blocked so that the module might not boot again after reset.
Melody controller	1	Task processing failure	During the loading of a task an error occurred.
Melody controller	1	Task processing failure	During the loading of a task an error occurred.
Melody controller	1	Task processing failure	During the loading of a task an error occurred.
Melody controller	1	Task processing failure	During the loading of a task an error occurred.
Melody controller	1	Task processing failure	During the loading of a task an error occurred.
Melody controller	1	Task processing failure	During the loading of a task an error occurred.
Melody controller	1	Unknown OP-Code	During the loading of a task an error occurred.
Melody controller	1	Sys.-modul-prog processing failure	Faulty or not-existing function module has been detected. E.g. the engineering system has loaded a function block module into the unit that is not supported by the software version.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	UnknownSys.-modul-prog entered	Faulty or not-existing function module has been detected. E.g. the engineering system has loaded a function block module into the unit that is not supported by the software version.
Melody controller	1	Interpreter can not be started	The function interpreter could not be started due to an error.
Melody controller	1	Task processing failure	While processing a task an error occurred.
Melody controller	1	Task processing failure	While processing a task an error occurred.
Melody controller	1	Task processing failure	The transition an sequential function chart is defective.
Melody controller	1	Unknown OP-Code	The criteria numbering in a sequence chain is defective.
Melody controller	1	Task processing failure	While processing a task an error occurred.
Melody controller	0	Task processing failure	While processing a task an error occurred.
Melody controller	1	Cyclic redundance adjust disturbed	Capacity problems have been detected due to the high number of sequence chains in the function unit causing the balancing of a huge amount of data. Or there is a hardware failure on the controller module or the backplane.
Melody controller	1	Cyclic redundance adjust disturbed	Capacity problems have been detected due to the high number of sequence chains in the function unit causing the balancing of a huge amount of data. Or there is a hardware failure on the controller module or the backplane.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Read/write error for PVDB by task	An error occurred during writing or reading of an alphanumeric (process variable).
Melody controller	1	Transmit FIFO remains full	1) Defective interface (Rupi, FIFO, ...) 2) Overload of the bus network so that only few measuring values may be sent. 3) To many transmit data available **Note**: The main CPU has detected that the bus interface processor doesn't collect the transmit data. Thus the FIFO that is working as data buffer between main CPU and interface processor remains full.
Melody controller	1	Line A (B) disturbed	The bus interface processor has an error and the main CPU will reset it after three unsuccessful restart attempts.
Melody controller	3	Measured value(s) not actualized	A module or a pair of module is disturbed so that the measuring values cannot be sent anymore. **Note**: The module processes measuring values that are transmitted via bus from another module. These measuring values have not been actualized over a longer period.
Melody controller	3	Non defined couple status	During the coupling run an internal error has been detected. There was a try to enter an inadmissible status in the process variable database (PVDB).

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	3	Wrong parameter for PVDB access	During normal operation an internal error in the PVDB (process variable data base) occurred. An inadmissible parameter has been identified.
Melody controller	2	Max numb. marsh.-entries are attained	The total number of marshalling for a single alphanumeric (process variable) is too high. A process variable (an alphanumeric) should be marshalled to more than 60 drains.
Melody controller	2	Not possible to attach event-list elem.	The admissible memory area for an alarm/event typical is full.
Melody controller	2	Max. numb. event-list-elem. Attained	The reserved memory area for alarm & event typicals is full.
Melody controller	2	PVDB P-Channel already existing	On the Fnet there is doubled marshalling, i.e. a signal is marshalled twice via the bus. The marshalling of the measuring values is not affected but the busload increases.
Melody controller	2	Write protection-setting failure	Writing protection for the system-RAM-area could not be set again after a change
Melody controller	3	SS1; Service interface disturbed	The (rear sided) interface (SS1) has failed or the connection to the connected device has been disconnected.
Melody controller	1	Radio clock operation disturbed	The rear sided interface (SS1) has failed or the connection to the radio clock has been disconnected or the radio clock has failed.
Melody controller	2	SS1; Service interface disturbed	The (rear sided) interface (SS1) has failed or the connection to the connected device has been disconnected.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	Task monitoring disturbed	The task monitoring could not be correctly installed.
Melody controller	1	Task monitoring failure	The task monitoring could not be correctly installed.
Melody controller	3	Battery error	The module has a buffer battery on behind the front panel to ensure the long time storage of the data. This battery voltage has fallen below the minimum threshold value. After power down the storage of the data cannot be guaranteed any longer.
Melody controller	3	Redundant buffering supply failure	Additionally to the battery in the front panel there is a redundant power supply for controller modules on the backplane. The voltage of this redundant voltage supply has fallen below a minimum threshold value. After power down and the failure of the front panel battery the storage of the data cannot be guaranteed any longer.
Melody controller	3	Power supply of cubicle disturbed	The voltage supply of the cabinet has partly failed. One power supply unit or one diode module has failed, or a fuse on the fuse card is blown.
Melody controller	3	Cubicle door open	The cabinet door has been opened for maintenance or the wiring to the door contact is defective.
Melody controller	3	Cubicle temperature out of range	The temperature in the cabinet is too high or the temperature sensor is defective.
Melody controller	2	Cubicle repeater failure	A repeater in the cabinet has failed.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	1	CPU-load > 90%	The CPU load of the module has been higher than 90% for a longer period.
Melody controller	1	Runtime error system task	The system task that is named in the message could not be executed in time. Thus there was a runtime error of this task. The cause may be a too high CPU load or a disturbance in the module tasking.
Melody controller	1	Runtime error system task	The application task that is named in the message could not be executed in time. Thus there was a runtime error of this task. The cause may be a too high CPU load or a disturbance in the module tasking.
Melody controller	1	Time synchronisation failed	The module has not received any time synchronization telegram for a longer period.
Melody controller	2	system time delta not balanced	The module has not yet received the current time data (time zone, status bits, ...). It is very likely that the time synchronization is missing (see message ID: 2101).
Melody controller	1	Multiple time synchronisation	The module has detected that there is more than one source for the time synchronization.
Melody controller	3	Time of the master clock was set	The master clock has been manually changed.
Melody controller	1	Redundance take over failure	The active module fails during redundancy balancing.
Melody controller	1	Redundance take over	The module has changed its state from passive (backup) to active (primary).

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	2	Redundancy communication disturbed	The communication to the redundancy partner module is disturbed. Possible causes are a faulty bus connection, the failure of the redundancy link or the failure of the redundancy partner.
Melody controller	2	Redundancy link disturbed	The redundancy link has been disconnected.
Melody controller	2	Redundancy control failure	The primary (active) module can t lock the redundancy take over within the backup (passive) module. There is either an overload of the module or an overload of the bus.
Melody controller	3	No serviceblock is free	Overload of the service functions of the module because of too much simultaneous accesses (measuring, parameterization, simulation).
Melody controller	3	Not possible to attach service block	Overload of the service functions of the module because of too much simultaneous accesses (measuring, parameterization, simulation).
Melody controller	3	Received service was failed	A service function has been received as disturbed.
Melody controller	2	Internal object communication failure	A service function has been received as disturbed.
Melody controller	3	Transmission disturbed Fnet	A request from the controller to a local I/O module failed. The local I/O module was overloaded for a short time or there are disturbances on the Fnet.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody controller	2	Transmit FIFO full Fnet	The number of values to be transferred exceeds the Fnet capacity for a short time.
Melody controller	1	Transmit FIFO remains full Fnet	If there is subsequently three times the message 2510 "Transmit FIFO full Fnet" then this message will be sent. By a message burst or by multiple marshalling (one value is assigned to too many output modules) then not all values can be transmitted in real time.
Melody controller	1	Communication disturbed Fnet	The interface processor to the Fnet (RUPI, ASIC or FPGA) is not available during the booting of the module. There is a hardware problem of the module.
Melody controller	1	Communication disturbed Fnet	All local I/O modules (in case of CMC 50: all active local I/O modules) failed. Or the bus connection is disturbed.
Melody controller	1	Input signals from I/O-modules not refreshed	An interpreter error in the Fnet master has been detected.
Melody controller	2	Data inconsistency between RAM and FLASH	During the automatic check of the configuration data the controller has detected an inconsistency between the data in the working memory (SDRAM) and the non volatile memory (FLASH-Memory).
Melody coupler	2	Event generation disabled	Within the coupling module of type CCO the event generation is disabled. This function allows the suppression of messages of an area during commissioning.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody coupler	3	ETH0 Communic. decreased (CRC)	The data traffic via Onet (Ethernet) is often disturbed. The module detected several CRC-errors within a short period.
Melody coupler	1	ETH0 Communi. critical (CRC)	The data traffic via Onet (Ethernet) is often disturbed. The module detected several CRC-errors within a short period.
Melody coupler	3	ETH0 Communic. decreased (CD)	The data traffic via Onet (Ethernet) is often disturbed. The module detected several CRC-errors within a short period.
Melody coupler	1	ETH0 Comm. critical (CD)	The data traffic via Onet (Ethernet) is often disturbed. The module detected multiple collisions within a short period.
Melody coupler	1	ETH0 Network connection failed	The passive (backup) CCO 30 doesn't receive test messages anymore.
Melody Fnet	1	I/O module failed	I/O module can t be accessed via Fnet. Possible reason: - Power supply failed CUW - detected both Fnet-lines disturbed
Melody Fnet	2	Transmission I/O module/Controller (A) disturbed	The Fnet-Master has three times unsuccessfully tried to request the I/O module on Fnet line A. Possible reason: - I/O module transmitter / Fnet line A defective - Fnet Master receiver / Fnet line A defective - Fnet line A defective

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Fnet	2	Transmission I/O module/Controller (B) disturbed	The Fnet-Master has three times unsuccessfully tried to request the I/O module on Fnet line B. Possible reason: - I/O module transmitter / Fnet line B defective - Fnet Master receiver / Fnet line B defective - Fnet line B defective
Melody Fnet	1	Time synchronisation missing on Fnet	The time synchronization is started with the linking of the first I/O module. The cause for this alarm is a failure of the time synchronization, i.e. the Fnet-Master has not received any time synch telegrams for more than 10sec.
Melody Fnet	1	I/O module message buffer full	The Fnet-Master transmit message buffer is full! This is a short time disturbance based on a temporary overload.
Melody IEC61850	1	IEC61850 Interface-ISS does not launch	The IEC 61850 communication stack does not launch.
Melody IEC61851	2	IEC61850 Interface-Major Error	This concerns a common alarm, which summarizes different problems concerning the IEC 61850 stack communication.
Melody IEC61852	3	IEC61850 Interface-Minor Error	This concerns a common alarm, which summarizes different events with an informative character.
Melody IEC61853	1	IEC61850 Connection to all IED failed	Interruption of the IEC 61850 Ethernet line

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Exchange NV-RAM of the module	The NVRAM of the module has been written more than 9000 times after power down. The NVRAM lifespan has nearly been reached.
Melody Local I/O	2	Transmission Controller-I/O module (A) disturbed	The Fnet-Master has three times unsuccessfully tried to request the I/O module on Fnet line A. Possible reason: - I/O module transmitter / Fnet line A defective - Fnet Master receiver / Fnet line A defective - Fnet line A defective
Melody Local I/O	2	Transmission Controller-I/O module (B) disturbed	Communication Controller / I/O-module Fnet line B disturbed. The I/O module doesn't receive any telegrams on Fnet line B from the controller anymore. Possible reason: 1. Transmitter of the Controller Fnet line B is defective. 2. Receiver of the I/O module Fnet line B is defective. 3. Fnet bus line B interrupted.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	1	Hardware failure or telegram type wrong	In case that AC 870P / Melody transmits the system message "Hardware failure or telegram type wrong" to Operations, this is necessarily not an error, neither the fact that a message has been generated nor the reason why this message has been initiated. The message type has originally been created to monitor the communication processes between Fnet-slave and Fnet-master. In case that during a communication there is a disturbance in the sequence of the communication process then the Fnet-slave sends the system message "Hardware failure or telegram type wrong" together with additional information. This additional information helps to find causes of a disturbance (in case of an analysis). A disturbance can only be stated after accumulated alarms. In this case the life monitoring detects additionally the failure of a signal path and reacts corresponding to the invalidity strategy, partial disturbance signaling, entries in error registers and signaling of disturbances. In case of sporadic occurrence of the system message this leads to single loss of a value that will be refreshed during the following cyclic transmit operation.
			The long term experience of AC 870P / Melody has shown that the system Hardware failure or telegram type wrong " only occurs as sporadic message.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	1	Function code not admissible	The slave doesn't support the function code Different meaning of the error code
Melody Local I/O	1	Address not in valid range	Within the configuration of the CCF 10 / CCF 10-P an address out of the valid area has been selected.
Melody Local I/O	1	Value not admissible for the address	The denoted value is invalid depending on the denoted address.
Melody Local I/O	2	Device cannot answer anymore	A MODBUS subscriber is disturbed.
Melody Local I/O	2	Answer at the moment not possible	The module currently does not get any response from the requested MODBUS subscriber.
Melody Local I/O	2	Answer momentary not poss., request ok	The module doesn't receive momentary any answer from the requested MODBUS subscriber even though the request has been acknowledged.
Melody Local I/O	1	Input-ZSP memory is written twice	There has been an error in writing the transfer memory (ZSP) on the module.
Melody Local I/O	2	Overflow of the event buffer	In the third-party system a high number of event messages occurred.
Melody Local I/O	1	Invalid Input-ZSP memory in the event buffer	An invalid transfer memory address has been entered in the event buffer.
Melody Local I/O	3	Configuration fault: Init data	In the CCF 10 / CCF 10-P configuration errors occurred.
Melody Local I/O	3	Configuration fault: Read function	In the CCF 10 / CCF 10-P configuration errors occurred.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Configuration fault: Write function	In the CCF 10 / CCF 10-P configuration errors occurred.
Melody Local I/O	3	Timeout for answer	The requested subscriber on the MODBUS has not responded in the defined monitoring time.
Melody Local I/O	3	Answer with undefined fault	The subscriber on the MODBUS has answered with an unknown error code.
Melody Local I/O	1	Device disturbed	The third-party system failed.
Melody Local I/O	3	FS- Module not available (any more)	Alarm text has been generated by third-party system.
Melody Local I/O	3	FS- Max. subscriber number (6) exceeded	Alarm text has been generated by third-party system.
Melody Local I/O	4	FS- Subscriber cancelled/deleted	Alarm text has been generated by third-party system.
Melody Local I/O	3	FS- Incorrect coupling mode	Alarm text has been generated by third-party system.
Melody Local I/O	5	FS- Block no./block name not found	Alarm text has been generated by third-party system.
Melody Local I/O	3	FS- Reception list/block disabled	Alarm text has been generated by third-party system.
Melody Local I/O	2	FS- Reception data block too small	Alarm text has been generated by third-party system.
Melody Local I/O	2	FS- Action against write protection	Alarm text has been generated by third-party system.
Melody Local I/O	2	FS- Data transfer failed	Alarm text has been generated by third-party system.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	1	FS- Bus failed	Alarm text has been generated by third-party system.
Melody Local I/O	2	FS- Bus coupler failed/disturbed	Alarm text has been generated by third-party system.
Melody Local I/O	2	FS- Bus coupler (Transm. puffer full	Alarm text has been generated by third-party system.
Melody Local I/O	2	FS- Bus coupler (Reception puffer full)	Alarm text has been generated by third-party system.
Melody Local I/O	3	Incorrect measurement telegram length	The real data telegram length differs from the configured data telegram length.
Melody Local I/O	3	Monitoring time is elapsed	The measuring value has not been received within the monitoring time TU (that has been adjusted within the receive function block).
Melody Local I/O	3	Timeout in case of announcing	The establishment of the connection for a measuring value to the third-party system is impossible.
Melody Local I/O	2	Doubled time synchronization in FS	If for the module 3964(R)/N-V.24 T_SYN=1 and a time synchronization telegram has simultaneously been received from the Third-party system.
Melody Local I/O	3	Interface overloaded	Within 5 seconds CCF 10 / CCF 10-P could not reach a transmit release. (STX/DLE).
Melody Local I/O	2	Interface failed	CCF 10 / CCF 10-P hasn t received a STX ('Start of Text') for at least 10 seconds.
Melody Local I/O	3	Send fifo : Frame too short	An error in the FIFO of CCF 10 / CCF 10-P has been detected.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Send fifo : Frame too long	An error in the FIFO of CCF 10 / CCF 10-P has been detected.
Melody Local I/O	3	Send fifo : wrong frame checksum	An error in the FIFO of CCF 10 / CCF 10-P has been detected.
Melody Local I/O	2	MODBUS disturbance	There isn't any stable data connection between the MODBUS-subscribers. - 20 % of the received frames are defective. - Bad cable quality, - missing terminating resistors, etc.
Melody Local I/O	2	MBM Storage fault	An hardware error has been detected on the module.
Melody Local I/O	2	Voltage Uv has failed	One voltage supply Uv 1, Uv2 or Uv3 failed
Melody Local I/O	3	Contact bias has failed	A hardware error on the I/O module regarding the generation of the negative voltage has been detected.
Melody Local I/O	1	Error in configuration data	The module CTI 20 has an error in the configuration data.
Melody Local I/O	3	Line break transmitter/signal line	Line break of field device or signal line. (The sum of device resistance and line resistance exceed the threshold value that depends on the measuring value and that is in the range of 3,5 kOhm up to 1
Melody Local I/O	3	Short-circuit transmitter/signal line	Short circuit of resistance or signal line connected to CTI 20. The sum of resistance and signal line resistance has been fallen below the threshold of 50 Ohm.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Reference junction disturbed	The channel with the measuring for the reference junction temperature has detected an error (invalid measuring of the reference temperature) OR The reference temperature measuring is working correct but the measured reference temperature differs more the configured temperature difference (TOLT) from the adjusted set value for the reference temperature (REFT).
Melody Local I/O	2	Redundancy balance disturbed	Disturbance of the CAC 10 partner in redundancy (backup module).
Melody Local I/O	1	Unknown OP-Code	A software error has been detected.
Melody Local I/O	1	Data type error	A software error has been detected.
Melody Local I/O	2	Stack error	A software error has been detected.
Melody Local I/O	2	Division by 0	A software error has been detected.
Melody Local I/O	2	Arithmetic overflow error	A software error has been detected.
Melody Local I/O	2	Overflow of meas. value transmit buffer	The Fnet transfer capacity has been temporarily exceeded, due to the high number of signals to be transferred. (message bursts)
Melody Local I/O	3	Receive fifo: Frame too short	An error in the FIFO of CCF 10 / CCF 10-P has been detected.
Melody Local I/O	3	Receive fifo : Frame too long	An error in the FIFO of CCF 10 / CCF 10-P has been detected.
Melody Local I/O	3	Receive fifo : wrong frame checksum	An error in the FIFO of CCF 10 / CCF 10-P has been detected.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	2	MBM not running	Reaction on other errors (e.g. errors during loading, wrong interface parameter, ...) Hardware error.
Melody Local I/O	3	Positioning loop AUT disturbance	Despite positioning commands sent, the actuator does not change the position to the desired direction or not with the required minimum speed.
Melody Local I/O	3	Positioning loop MAN disturbance	Despite a local operation has been done the actuator position does not change to the desired direction or nor with the required minimum speed. Without operation the positioner changes its position.
Melody Local I/O	3	Positioning loop AUT disturbance	Despite positioning commands sent, the actuator does not change the position to the desired direction or not with the required minimum speed.
Melody Local I/O	3	Positioning loop AUT disturbance	Despite positioning commands sent, the actuator does not change the position to the desired direction or not with the required minimum speed.
Melody Local I/O	3	Positioning loop MAN disturbance	Despite a deviation in position the pneumatic drive running in manual mode does not change the position to the desired direction or not with the required minimum speed.
Melody Local I/O	3	Positioning loop in MAN with act block.	The positioner moves without any command.
Melody Local I/O	3	Output circuit is interrupted	The circuit for the output signal IA is disconnected.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Electronic power unit failed	Loss of release signal F10.
Melody Local I/O	3	Parallel card failed	The release signal F8 of the parallel module (XM13) is lost. The module has failed or the signal line has been disconnected.
Melody Local I/O	3	External error EXT	Via binary input EXST_REL a disturbance has been indicated e.g. coming from the substation automation.
Melody Local I/O	3	Torque switch in "+" dir. before +RM	The drive/actuator has been blocked in intermediate position, the end position switch has failed.
Melody Local I/O	3	Torque switch in "-" dir. before -RM	The drive/actuator has been blocked in intermediate position, the end position switch has failed.
Melody Local I/O	3	Max value exceeded	The signal coming from the transmitter is higher than the configured maximum value. - Short circuit of the transmitter - Transmitter is defective
Melody Local I/O	3	Fallen below min value	The signal coming from the transmitter is lower than the minimum value. - Line break of the transmitter loop - Short circuit of the transmitter loop to ground/mass - Transmitter is defective

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	External release missing	The fuse module of a 4-wire-transmitter has detected a violation of the admissible transmitter supply current (too high / too low) and as a consequence set the external release signal to 0.
Melody Local I/O	3	Valence error CLOSED = N.CLOSED	The monitoring for the binary input of the position feedback RM0 of the aggregate has detected an error: - Valence monitoring (RM0=RM0/=0 or 1) - Line break, mass connection or connection to 24 V of the wiring.
Melody Local I/O	3	Valence error OPEN = N.OPEN	The monitoring for the binary input of the position feedback RM1 of the aggregate has detected an error: - Valence monitoring (RM1=RM1/=0 or 1) - Line break, mass connection or connection to 24 V of the wiring.
Melody Local I/O	3	Valence error OPEN=CLOSED	The valence monitoring has detected an error RM0=RM1=0 or 1. - Line break, mass connection or connection to 24 V of the wiring. - End position switch for OPEN/CLOSE is defective. - Inputs have not been wired yet.
Melody Local I/O	3	Val. err. of torque sw. for OPEN=CLOSED	The valence monitoring has detected an error DR0=DR1=0. - Line break or M-connection of both lines. - Inputs have not been wired yet.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	External disturbance EXST	The binary input EXST has indicated a disturbance e.g. coming from substation automation (switch gear). Probable causes are: - Overcurrent of the motors. - The external fuse has blown.
Melody Local I/O	3	Disturbance of transmitter supply UVG	The power supply monitoring has detected an error. - Line break or M-connection (connection to ground) of the power supply lines.
Melody Local I/O	3	Disturbance of command line BEF0	The command line monitoring for command 0 has detected an error. - Line break, mass connection or connection to 24 V of the command lines. - Break of the coupling relay coil. - Outputs have not been wired yet.
Melody Local I/O	3	Disturbance of command line BEF1	The command line monitoring for command 1 has detected an error. - Line break, mass connection or connection to 24 V of the command lines. - Break of the coupling relay coil. - Outputs have not been wired yet.
Melody Local I/O	3	Valence error OFF = N.OFF	The monitoring for the binary inputs for feedback signal RM0 of the aggregate has detected an error. - Valence monitoring (RM0=RM0/=0 or 1) - Line break, mass connection or connection to 24 V of the wiring.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Valence error ON = N.ON	The monitoring for the binary inputs for feedback signal RM1 of the aggregate has detected an error. - Valence monitoring (RM1=RM1/=0 or 1) - Line break, mass connection or connection to 24 V of the wiring.
Melody Local I/O	3	Valence error of acknowledgements ON=OFF	Valence monitoring RM0=RM1=0 or 1. - Line break, mass connection or connection to 24 V of the wiring. - The end switch for ON/OFF is defective - Inputs have not been wired yet.
Melody Local I/O	3	External disturbance EXST	The binary input EXST has indicated a disturbance e.g. coming from substation automation (switch gear). Probable causes are: - Overcurrent of the motors. - The external fuse has blown
Melody Local I/O	3	Disturbance of transmitter supply	The power supply monitoring has detected an error. - Line break or M-connection (connection to ground) of the power supply lines - temporary all inputs for drive related transmitters on L-potential
Melody Local I/O	3	Disturbance of command line BEF0	The command line monitoring for command 0 has detected an error. - Line break, mass connection or connection to 24 V of the command lines. - Break of the coupling relay - Outputs have not been wired yet.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Disturbance of command line BEF1	The command line monitoring for command 1 has detected an error. - Line break, mass connection or connection to 24 V of the command lines. - Break of the coupling relay - Outputs have not been wired yet.
Melody Local I/O	3	Valence error OPEN = CLOSED	The valence monitoring indicates RM0=RM1=0 or RM0=RM1=1. - Line break, mass connection or connection to 24 V of the wiring. - End position switch for OPEN/CLOSE is defective. - Inputs have not been wired yet.
Melody Local I/O	3	External disturbance EXST	The binary input EXST has indicated a disturbance e.g. coming from substation automation (switch gear). Probable causes are: - Overcurrent of the motors. - The external fuse has blown.
Melody Local I/O	3	Disturbance of command line BEF1	The command line monitoring for command 1 has detected an error. - Line break, mass connection or connection to 24 V of the command lines. - Break of the coupling relay (coil). - Outputs have not been wired yet.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Local I/O	3	Valence error OPEN = CLOSED	The valence monitoring indicates RM0=RM1=0 or RM0=RM1=1. - Line break, mass connection or connection to 24 V of the wiring. - End position switch for OPEN/CLOSE is defective. - Inputs have not been wired yet.
Melody Local I/O	3	External disturbance EXST	The binary input EXST has indicated a disturbance e.g. coming from substation automation (switch gear).Probable causes are: - Overcurrent of the motors. - The external fuse has blown.
Melody Local I/O	3	Disturbance of command line BEF1	The command line monitoring for command 1 has detected an error. - Line break, M-connection (connection to ground) or +24V-connection of the command line. - Outputs have not been wired yet.
Melody OPC Server	1	No Connection to %1	The Melody OPC Server could not establish a connection to the CCO.
Melody OPC Server	1	No connection configured for %1	The CCO has been configured as unavailable. No connections are established.
Melody Profibus	1	Profibus: failure of a subscriber	The slave cannot be accessed via bus. The slave has not responded to a repeated request of the master.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Profibus	3	Profibus: parameter fault	Message of a slave after configuration, e.g.: identity number or user parameter wrong. The last parameter telegram that the slave received was faulty.
Melody Profibus	3	Profibus: configuration fault	Message of a slave after configuration. The last configuration data that the slave has received differ from those that the slave has identified, e.g.: module structure is not matching to the configuration data.
Melody Profibus	3	Profibus: diagnosis data exist	Slave diagnostic data are available which can not be analyzed by the master because these data eventually are not conform to the Profibus DP standard or the master has is overloaded.
Melody Profibus	1	Profibus: bus address available twice	A bus address exists at least twice. Two slaves in a Token Ring have the same address.
Melody Profibus	1	Profibus: MAC-error	Error on Controller hardware (e.g.: defective driver). The Medium-Access-Controller (MAC) on the bus-ASIC indicates an error.
Melody Profibus	1	Profibus: failure of bus interface	Error on Controller hardware (ASIC error). The Profibus-ASIC (ASPC2) indicates a hardware error.
Melody Profibus	3	Profibus: reserved	Channel related error (acc. to DIN 19245-3: error type 0 / reserved) The error has been created by the slave and passed through the system.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Profibus	3	Profibus: short-circuit	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 1). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: undervoltage	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 2). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: overvoltage	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 3). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: overload	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 4). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: over temperature	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 5). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: line break	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 6). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: higher limit-value exceeded	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 7). The error has been created by the slave and passed through the system.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Profibus	3	Profibus: lower limit-value exceeded	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 8). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: error	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 9). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: reserved	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 10). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: reserved	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 11). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: reserved	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 12). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: reserved	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 13). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: reserved	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 14). The error has been created by the slave and passed through the system.

Table 10. 800xA for AC 870P/Melody: System Alarms (Continued)

Component	Priority Level	Short message Short description of the system alarm	Long message Extended message of the system alarm
Melody Profibus	3	Profibus: reserved	Channel related diagnostic message of the slave (acc. to DIN 19245-3: error type 15). The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: unknown channel-related error	Group message for manufacturer specific channel related diagnostic messages of a slave. This alarm will not be sent anymore as from version CSV 1.45! The error has been created by the slave and passed through the system.
Melody Profibus	3	Profibus: module-related error	The alarm is related to an error on the module of a slave. The controller sends this group message in case that the slave has detected an error.
Melody Profibus	3	Profibus: No connection to backup slave	The connection to the redundant slave (backup slave) is not available. Possible causes are: - Unplugged modules - Defective modules - Disconnected lines
Melody Profibus	2	Number of Profibus SOE signals too high	Number of Profibus SOE signals too high
Melody Profibus	2	Configuration error regarding Profibus SOE signal	Configuration error regarding Profibus SOE signal
Melody Profibus	2	Wrong data type from Profibus DPV2 slave	The Profibus DPV2 slave sends wrong data

Fieldbus Device Libraries

Table 11. Fieldbus Device Libraries: System Alarms

Component	Short message Short description of the system alarm	Long message Extended description of the system alarm
HART Generic Device Asset Monitor NE107	Function Check	Analog output current fixed. The primary analog and digital analog outputs will not respond to the applied process.
	Maintenance required (soon)	Device configuration changed.
	Failure	Device operation compromised due to a malfunction. Analog output signal might have gone to a predefined safe condition (up/down scale).
	Maintenance required (soon)	More diagnosis information available.
	Failure	Process value is outside its working range.
	Failure	The Process value is outside the sensor limits and no longer representing the true applied process value.
	Failure	The auxiliary value/s is/are outside their operating limits
	Maintenance required (soon)	Power has been reapplied resulting in the re-initialization of the device.
PROFIBUS Generic Device Asset Monitor NE107	Failure	Invalid parameterization prevents the device from starting-up or functioning properly.
	Failure	Invalid configuration prevents the device from starting-up or functioning properly.
	Failure	Characterization invalid

Table 11. Fieldbus Device Libraries: System Alarms (Continued)

Component	Short message Short description of the system alarm	Long message Extended description of the system alarm
PROFIBUS Generic Device Asset Monitor NE107 (Continued)	Failure	Wrong identification number prevents start-up of communication interface.
	Failure	Missing self calibration.
	Failure	Failed self calibration.
	Out of specification	Degraded accuracy due to zero point error.
	Failure	Invalid measurement values due to continuous failure in measurement acquisition.
	Failure	A malfunction of mechanics causes the device to stop proper functioning.
	Failure	Electronics hardware error causes the device to stop proper functioning.
	Failure	Electronics memory error causes the device to stop proper functioning.
	Maintenance required (now)	Maintenance required.
	Maintenance required (soon)	More diagnosis information available.
	Failure	Electrical or pneumatical power supply failure preventing a proper functioning.
	Failure	Device does not exist on the bus preventing start-up of communication.
	Failure	Coldstart. Device restarting with default configuration.

Table 11. Fieldbus Device Libraries: System Alarms (Continued)

Component	Short message Short description of the system alarm	Long message Extended description of the system alarm
PROFIBUS Generic Device Asset Monitor NE107 (Continued)	Failure	Warmstart. Device restarting with last valid configuration, resulting in a temporary loss of functionality.
	Out of specification	Lifetime getting degraded due to electronic temperature being too high. Functionality may be degraded.
	Out of specification	Lifetime getting degraded due to motor temperature being too high. Functionality may be degraded.
FF Generic Device Asset Monitor NE107	Failure	Device configured to be Out of Service or initializing.
	Failure	Device Out of Service or initializing.
	Failure	Device is Out of Service due to a configuration error in its Resource Block.
	Failure	Device is Out of Service due to a configuration error in its Transducer Block.
	Failure	Malfunction of electronic memory.
	Failure	Non specific failure. Device functionality lost.
	Failure	Readback Check Failed. The actuator is unable to reach its output position.
	Failure	Non specific failure. Sensor or Actuator functionality lost.
	Failure	The device's fault state behavior is active.
	Maintenance required (now)	Maintenance required now.

Table 11. Fieldbus Device Libraries: System Alarms (Continued)

Component	Short message Short description of the system alarm	Long message Extended description of the system alarm
FF Generic Device Asset Monitor NE107 (Continued)	Maintenance required (soon)	Maintenance is required soon.
	Failure	Malfunction in actuator positioning due to an open circuit.
	Failure	Malfunction in sensor input or actuator positioning.
	Maintenance required (soon)	Device just powering up or Transducer Block is Out of Service.
Profibus Channel Asset Monitor	Bad non-specific	No reason for bad value.
	Bad configuration error	The value is not useful due to inconsistency regarding parameterization or configuration of the device.
	Bad not Connected	Input is not connected.
	Bad device Failure	The value has been affected by a device failure.
	Bad sensor Failure	The sensor value has exceeded its range. The Limits define which direction has been exceeded.
	Bad no communication, with last usable value	The value has been set by communication which has now failed.
	Bad no communication, with no usable value	There has been no communication with the value since it was last Out of Service.
	Bad out of service	The value is not reliable due to the block being out of service.
	Uncertain non-specific	No reason of value uncertainty.

Table 11. Fieldbus Device Libraries: System Alarms (Continued)

Component	**Short message** Short description of the system alarm	**Long message** Extended description of the system alarm
Profibus Channel Asset Monitor (Continued)	Uncertain last usable value	Updating of value has stopped.
	Uncertain substitute	The value is at predefined rather than calculated value.
	Uncertain initial value	The value is at initial startup value.
	Uncertain sensor conversion not accurate	Either the value is at one of the sensor limits or the device has determined that the sensor has reduced accuracy.
	Uncertain engineering unit range violation	The value lies outside of the limits defined for this parameter. The Limits define which direction has been exceeded.
	Uncertain sub-normal	The value derived from multiple values has less than the number of good sources.
	Uncertain configuration error	There is inconsistency regarding parameterization or configuration of the device.
	Uncertain simulated value	The value is written by the operator while the block is in manual mode.
	Uncertain sensor calibration	Calibration is currently active.
	Good initiate fail safe	The value is from a block that want its following output block to go to Fail Safe.
	Good maintenance required	The device still works without failure but service will be necessary soon.
	Update event	The value is good but the block has an active update event.

Table 11. Fieldbus Device Libraries: System Alarms (Continued)

Component	Short message Short description of the system alarm	Long message Extended description of the system alarm
Profibus Channel Asset Monitor (Continued)	Active Advisory Alarm	The value is good but the block has an active alarm with a priority less than 8.
	Active Critical Alarm	The value is good but the block has an active alarm with a priority greater than or equal to 8.
	Unacknowledged Update Event	The value is good but the block has an unacknowledged update event.
	Unacknowledged Advisory Alarm	The value is good but the block has an unacknowledged alarm with priority less than 8.
	Unacknowledged Critical Alarm	The value is good but the block has an unacknowledged alarm with priority greater than or equal to 8.
	Low	The value has exceeded the low limit and is held at a low limit level.
	High	The value has exceeded the high limit and is held at a high limit level.
	Constant	The value is held at a constant level.

The above mentioned alarm conditions are corresponding to generic asset monitor only. For Command 48 and specific asset monitor alarms, refer to individual Release Notes available in the device Types.

Revision History

Introduction

This section provides information on the revision history of this User Manual.

The following table lists the revision history of this User Manual.

Revision Index	Description	Date
-	First version published for 800xA 6.0.1	October 2015
A	Published for 800xA 6.0.3	September 2016

Updates in Revision Index A

The following table shows the updates made in this Release for 800xA 6.0.3.

Updated Section/Sub-section	Description of Update
Section 1 System Alarm Messages	Added a new heading "Fieldbus Device Libraries".

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2PAA114623-600 A

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