Release Information
HMS-EN2PB-R

This release contains:

Type	File/Subcomponents	Label	File updated in this release
This document	-	-	Yes
Main and recovery image (compressed)	7710-EN2PBR_Main_Release_v1.4.3.zip	-	Yes
EDS file	005A000C00560100.eds	-	Yes

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Reason for release:

Release to address stability issues.
All components upgraded:

- ILX PROFIBUS Master updated version 2.0.7 -> 2.2.1

This upgrade introduces incompatible changes in the interface between ILX PROFIBUS Master and the gateway application.

Downgrade from v1.04.03 to release v1.02.10 *is possible*

Downgrade to older release will *not* **be possible.**

Affected functionality

Affected functionality		Description
Affected functionality	☐ Network conformity ☐ Network interface ☐ IT-functionality ☐ Security ☒ Stability ☐ Other	- Bug fixes and major stability improvements in the PROFIBUS Master.

Field update recommendation

Field update recommendation		Description
Field update recommendation	☐ Update required for conformance testing ☒ Only devices in the field showing problems ☐ All devices in the field	-

Compatibility:

Hardware

Firmware can be downloaded to 5Z00-1.x.x, M00780, but please note that the 512MB flash memory is required.

PCB	Compatible?	Hardware-ID (48 bits)
5Z00-1.x.x, M00780	Compatible	-

Device description file (DDF)

DDF	Firmware	Description
-	-	This release will work with any EDS with same Major version number. Any previous EDS file will work with this release as long as the Major version number of the EDS is the same as for this release.

How to upgrade from previous versions:

To upgrade a unit follow the steps below.

Firmware upgrade:

1. Connect the unit to your PC with a USB-cable.

2. Apply power to the unit.

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3. Access the built in web-page with http://192.168.10.1

4. Select the "Firmware update" page.

5. Select "Välj fil" / "Select file" and select the file "en2pbr-swuimage-main-en2pbr-vX.Y.Z.swu".

6. Press "Install". The firmware file will now be uploaded to the unit and the update process started. The complete process will take approximately 3-4 minutes.

7. The update is complete when "MS EN" LED is flashing green (or solid green, if EtherNet/IP connections are established).

    NOTE: After update, the running firmware version may be verified from the web-page.

    NOTE: During the update process the device may reboot several times. The device LED "MS EN" will flash alternating red/green during the update. During reboot the LEDs will be solid yellow/orange.

    NOTE: To be able to follow the update process via the web-page you will need to assign a static IP-address to your USB Ethernet/RNDIS network interface card. You will normally be assigned an address by the HMS-EN2PB-R, but during the update the DHCP server is not running and your PC will drop its address. Setting a static address (for example, 192.168.10.100) will solve that problem.

Recovery system firmware upgrade:

1. Follow the steps described above, but open the following link from the built-in web page: http://192.168.10.1/upload_backup_package.php

    NOTE: The recovery system is only used when updating the main system and as a recovery in case the main system upgrade fails. Updating the recovery system to latest version is currently not necessary.

Known limitations:

Title	Description	Issue id
Station Type List cannot be read from EIP if gateway is unconfigured	If there is no configuration downloaded to the EN2PB-R, it is not possible to check what PROFIBUS slaves are online (by using CIP Profibus Master object, getAttributeSingle class 0x301, instance 1, attribute 5 - Station type list).	M-0019298 (J-A7710A-140)

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Updated in version 1.04.03:

Title	Category	Description	Issue(s)
Profibus configuration puts gateway in fatal	Bug fix	When the configuration data of one slave exceeds a certain size, the gateway was not working properly. This has been corrected.	J-A7710A-161

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Updated in version 1.04.02:

Title	Category	Description	Issue(s)
Process data not (always) cleared when in STOP mode	Bug fix	Process data is now always cleared when in stop mode (introduced in v1.2.10). Process data and status word is always synchronized.	M-0019267 J-A7710A-135
Continously reading CIP attributes with UCMM puts gateway in fatal	Bug fix	Running load test with class1 connection, class3 and UCMM at the same time caused the gateway to enter fatal	M-19314 J-A7710A-144
Improved configuration error handling	Bug fix	Indicate wrong/missing "configuration version" to end user Imporved error information in case of invalid configuration Improved information on webpage in case of IP address conflict	M-18846 J-A7710A-99
Make "factory reset" from EIP do a proper factory default	Improved functionality	When a factory-default-reset is received from network, files are now properly deleted.	M-19199 A7710A-127
ILX PROFIBUS Master updated	Bug fix	Updated to v2.2.1 of the ILX PROFIBUS Master (See problems described above)	-

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Updated in version 1.2.10:

Title	Category	Description	Issue(s)
Various problems with frozen Input/Output/Status/Control-data	Bug fix	At times it could be seen that given some circumstances, the data transferred between the EtherNet/IP network and the PROFIBUS network could freeze. This could also affect the control word, status word and livelist. When this problem was encountered the only solution was a power-cycle of the EN2PB-R product.	0018836, 0018518, 0018755
Inconsistent diagnostics from PROFIBUS slave	Bug fix	The EN2PB-R had problems handling invalid PROFIBUS diagnostic data. When a slave would transfer diagnostic data that didn't follow the PROFIBUS specification, the EN2PB-R would end up in a situation where it countinously reset the PROFIBUS slave, thus causing the diagnostic data which can be read from the EtherNet/IP side to be changing continuously (reporting OFFLINE/ONLINE/DIAG states of the slave). This has been corrected by suspending the slave. To re-enable the slave the StartSlave service of the ProfibusSlave object can be used.	0018435
Incorrect calculation of PROFIBUS I/O sizes	Bug fix	With the Studio 5000 configuration it is possible to map the PROFIBUS-data to the EtherNet/IP-data. This can be done in many ways, and not all data must be mapped (even though this is the default). If not all PROFIBUS-data is mapped, the gateway will misinterpret the data sizes in some cases, and enter a fatal error. This is corrected by setting up the data sizes correctly in the Gateway.	0019352
SLP Linux updated	Improved functionality	Updated to SLP 17.10	-
Anybus EEM updated	Improved functionality	Updated to v1.5.2 of the Anybus EEM	-
ILX PROFIBUS Master updated	Bug fix	Updated to v2.0.7 of the ILX PROFIBUS Master (See problems described above)	-

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Updated in version 1.1.10:

Title	Category	Description	Issue(s)
Livelist is not updated	Bug fix	Sometimes the livelist part of the input data to the EtherNet/IP PLC where not updated. The underlying problem was a communication problem with the PROFIBUS master which has been resolved.	0017634
IO data freezes	Bug fix	Randomly the gatway would freeze the IO data in cirtain circumstances. This has now been corrected.	0017916 0017899
Profibus configurations without consecutive address range incorrectly handled	Bug fix	When configuring a PROFIBUS configuration with empty space within the memory range of the PROFIBUS master, the application will trigger a fatal error. This has been resolved by correctly ignoring the empty space(s).	0017660
Main picture updated on web-page	Other change	Picture updated on web-page	0017938
Incorrect maximum assembly size	Bug fix	Corrected maximum size(s) for input and output assemblys. A valid configuration with close to its maximum size would be considered as invalid.	-

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Updated in version 1.1.9:

Title	Category	Description	Issue(s)
Control word is not set to idle when an EtherNet/IP connection is set to idle	Bug fix	Control word is not set to idale when an EtherNet/IP connection is set to idle. This has been resolved.	0017613
Show product version in the firmware upgrade log	Improved functionality	Show product version in the firmware upgrade log	0017644
Fatal error in case gateway config too large	Bug fix	Fatal error in case gateway config too large. This has been resolved.	0017658
ILX master does not report fieldbus online	Bug fix	ILX master does not report fieldbus online. This has been resolved.	0017764
ILX out area handshaking failure	Bug fix	ILX out area handshaking failure. This has been resolved.	0017299