



Manufacturer Information

for users regarding software updates
(following the NAMUR recommendation 53)

AMS FOUNDATION fieldbus Package V1.06.00

1 Type of Product

- Field device / signal processing device
- Software application for display and monitoring / asset management / handheld terminal etc.
- Modem / interface

Manufacturer : Endress+Hauser Process Solutions AG
 Product : AMS FOUNDATION fieldbus Package V1.06.00
 Type and order code : n.a.

2 Software

Previous software version : 1.05.00
 New software version : 1.06.00
 How can the previous software version number be identified? : The current version number could be found on a Device List, the Release Notes or in the name of the ZIP archive.
 Description of the modification in comparison with the predecessor version : See attachment Release Notes, chapter Revision History.

3 Compatibility

Is the new product software compatible with the previous version, installed device driver components and operating tools?

- Yes
- No, reason:

Is a software update generally recommended?

- Yes, reason:

The Update is recommended for the following cases:

- a) You require one new added device driver.
- b) You use a device, where the driver has been improved.

The list of changes regarding new drivers or driver improvements can be found in the attached Release Notes document within chapter Revision History.



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No, reason:

4 Instruction manual

Is a new instruction manual necessary due to the software modification?

- Yes
 No

The manual that corresponds to the new software version is:

| Product | Communication options | Manual type | Document identifier |
|---------|-----------------------|-------------|---------------------|
| N.A. | N.A. | N.A. | N.A. |

5 Price

Change in price of device in comparison with the predecessor version?

- Yes, new list price and update costs (without installation) are enclosed
 No

Release Notes

AMS Foundation Fieldbus Package 1.06.00

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1 Revision History

| | |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.06.00 | <p><u>New Devices added to the package:</u> Levelflex FMP5x Rev.2 DD Rev.2 Micropilot FMR5x Rev.2 DD Rev.2 Liquiline pHORP Rev.2 DD Rev.2 Liquiline Cond Rev.2 DD Rev.2 Liquiline Oxygen Rev.1 DD Rev.2</p> |
| 1.05.00 | <p><u>New Devices added to the package:</u> Prowirl 200 Rev.1 DD Rev.1 Promass 200 Rev.1 DD Rev.1 iTEMP TMT85 Rev.2 DD Rev.3</p> |
| 1.04.00 | <p><u>New Devices added to the package:</u> Promag 53 Rev5 Promag 55 Rev 5 Promass 83 Rev 5 Prosonic Flow 93 Rev 4 T-Mass 65 Rev 2 Micropilot FMR5x Rev1 Cerabar S Rev.7 Deltabar S Rev.7 Deltapilot S Rev7 iTEMP TMT85 Rev2</p> <p><u>Improvements:</u> Support (.ini file) for all devices updated for AMS version 12.0 and DeltaV version 12.3</p> |
| 1.03.00 | <p><u>New Devices added to the package:</u> Levelflex FMP5x Rev1 DD Rev.2</p> <p><u>Improvements:</u> Support (.ini file) for all devices updated for AMS version 11.5</p> |
| 1.02.00 | <p><u>New Devices added to the package:</u> Deltapilot M FMB5x Rev1 * Cerabar M PMx5x Rev1 * Deltabar M PMD55 Rev1 * iTEMP TMT162 Rev2</p> <p><u>Improvements:</u> Prosonic Flow 93 Rev.2 DD replaced with the official one from the FF Homepage (resolve a Scanning Problem.)</p> <p>*For more information see chapter 3</p> |
| 1.01.00 | <p><u>General:</u> New types AMS_FF_COMPONENTS added.</p> <p><u>Improvements:</u> Promag 53/55 DD replaced with the official one from the FF Homepage Micropilot Rev.4 DD Rev.4 (update fix a linearization error) Micropilot Rev.5 DD Rev.5 (update fix a linearization error) Prowirl 72 Rev.1 DD Rev.1 (update fixed a labelling Problem) Prowirl 73 Rev.1 DD Rev.1 (update fixed a labelling Problem)</p> |

| | |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | Prosonic Flow 92 Rev.1 DD Rev.1 (update fixed a labelling Problem) Support (.ini file) for all devices updated for AMS version 11.1 |
| 1.00.00 | <p>General: New types AMS_FF_COMPONENTS added.</p> <p>New Devices added to the package: Display RID 1*</p> <p>Improvements: Deltabar S Rev.6 Cerabar S Rev.6 Deltapilot S Rev.6 Support (.ini file) for all devices updated for AMS version 10.5 and 11.0 The .fhx files are replaced with .cff files due to compatibility problem.</p> |
| 2009-02 | <p>General: Package Version introduced, Revision History Introduced</p> <p>New Devices added to the package: Promag 53 Rev.4 Promag 55 Rev.4 Promass 83 Rev.4 Prosonicflow 93 Rev.3 T-Mass 65 Rev.1 Gammapilot / FMG60 Rev.3 Deltabar S Rev.6 Cerabar S Rev.6 Deltapilot S Rev.6</p> <p>Improvements: Prosonic M Rev.3 .ini file modification Levelflex M Rev.3 .ini file modification Promag 53/55 Rev.3 .ini file modification .ini file for all devices updated for AMS version 10.0 & 10.1</p> |

2 Installation

Verify that no AMS application is running. Use the DD installation utility from AMS/DeltaV to install all DDs. During the installation warnings could appear in fact of already installed files which are used in different setups. For the DD installations in AMS refer to the AMS related installation manual delivered by Emerson. For installation in Delta V separate each DD in a folder, if you would like to prevent possible error messages
Multiple DD files cannot be installed .

3 Deliverables

Following devices were EDD based:

- Deltapilot M FMB5x Rev1
- Cerabar M PMx5x Rev1
- Deltabar M PMD55 Rev1

You can also download the released drivers from the FOUNDATION Fieldbus Homepage.

| Component | Description of supported products |
|-----------------------|---------------------------------------|
| AMS_FF_All.zip | DD package for all FF devices |
| AMS_FF_Analysis.zip | DD package for analytical FF devices |
| AMS_FF_Flow.zip | DD package for flow FF devices |
| AMS_FF_Level.zip | DD package for level FF devices |
| AMS_FF_Pressure.zip | DD package for pressure FF devices |
| AMS_FF_Temp.zip | DD package for temperature FF devices |
| AMS_FF_Components.zip | DD package for components FF devices |

4 Known problems and limitations

4.1 General

Backup LAS:

All Devices have no Backup LAS functionality due to the fact the .fhx file creation from DeltaV System does not support it.

Remedy to enable BACKUP LAS functionality:

After installing the E+H Install Packages, you will find the created .fhx file at following location:

[AMS SYSTEM DIR]\Devices\FF\[ManufacturerCode]\[DeviceType]\
(e.g. TMT85 C:\AMS\Devices\FF\452b48\10ce)

Delete all files related to the dedicated device in this folder.

[DELTA V SYSTEM DIR]\DVDData\amsdevices\[ManufacturerCode]\[DeviceType]\
(e.g. TMT85 C:\DeltaV\DVDData\amsdevices\452b48\10ce)

Copy the generated .fhx file to the E+H Install Package and delete the .cff file there.

Delete all files related to the dedicated device in this folder.

[DELTA V SYSTEM DIR]\DVDData\YellowPages\amsdevices\[ManufacturerCode]\[DeviceType]\
(e.g. TMT85 C:\DeltaV\DVDData\YellowPages\amsdevices\452b48\10ce)

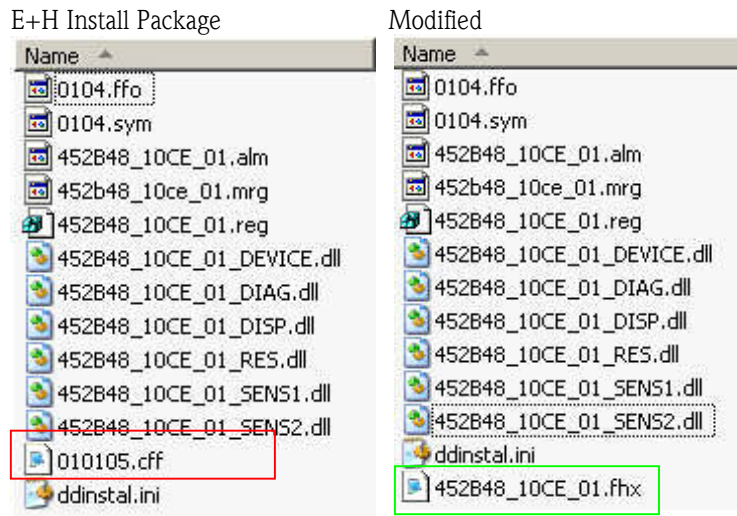
Delete all files related to the dedicated device in this folder.

Patch for AMS 11.5:

Some drivers have different problems in AMS version 11.5. There is an error in the AMS software (e.g. faulty event logbook, pop ups with error messages).

This problems are resolved with an Emerson AMS patch (KBANK-1200-0029).

Your installation package should look like this:



Open the .fhx file with notepad and replace the `DEVICE_CLASS=BASIC` with `DEVICE_CLASS=LINK_MASTER` .

Special recommendation for version 9.3 and older.
Delete the line `SUPPORT_ALARM=T` .

After those changes are finish, please reinstall the Drivers.

Appearance:

Some Parameter descriptions don t appears completely due to a to long parameter name.

4.2 Analysis-setup

No limitations known.

4.3 Flow-setup

No limitations known.

4.4 Level-setup

No limitations known.

4.5 Pressure-setup

No limitations known.

4.6 Temp-setup

No limitations known.

4.7 Components-setup

No limitations known

5 Setup Content

Each setup contains 5 types of files.

| | |
|----------------------------------------------|------------------|
| DD for configuring the device : | .sym, .ffo, .cff |
| Registration file for updating the database: | .reg |
| Device parameter appearance files: | .dll |
| Necessary Delta V files | .alm |
| Necessary AMS files | .mrg, .ini |

e.g. Micropilot M installer setup:

| | | |
|----------------------|---|---------------------------------|
| 0304.sym | } | DD |
| 0304.ffa | | |
| 030103.cff | } | Capability file |
| 452B48_100F_03.reg | | |
| 452B48_100F_03.dll | → | Database registration |
| 452B48_100F_03_R.dll | } | Parameter appearance definition |
| 452B48_100F_03_T.dll | | |
| 452B48_100F_03.alm | } | Delta V file |
| 452B48_100F_03.mrg | | |
| ddinstall.ini | } | AMS files |
| | | |

AMS FF Device List

Package 1.06.00

| Type | Device | Dev Rev. | DD Rev. | CFR Rev. | Device Type | Min Required AMS Version | | |
|------------------|----------------|--------------------|---------|----------|-------------|--------------------------|------|------|
| Pressure | Cerabar M (2) | PMx 5x | 1 | 2 | 2 | 1019 | 10.x | |
| | Cerabar S | PMx xxx | 2 | 3 | 3 | 1007 | 7.x | |
| | Cerabar S | PMx x7x | 5 | 1 | 2 | 1007 | 7.x | |
| | Cerabar S | PMx x7x | 6 | 3 | 4 | 1007 | 7.x | |
| | Cerabar S | PMx x7x | 7 | 2 | 1 | 1007 | 9.x | |
| | Deltabar M (2) | PMD55 | 1 | 2 | 2 | 1021 | 10.x | |
| | Deltabar S | xMD xxx | 2 | 3 | 3 | 1009 | 7.x | |
| | Deltabar S | xMD 7x | 5 | 1 | 2 | 1009 | 7.x | |
| | Deltabar S | xMD 7x | 6 | 3 | 4 | 1009 | 7.x | |
| | Deltabar S | xMD 7x | 7 | 2 | 1 | 1009 | 9.x | |
| | Level | Deltapilot M (2) | DB 5x | 1 | 2 | 2 | 1023 | 10.x |
| | | Deltapilot S | FMB70 | 1 | 2 | 2 | 100B | 7.x |
| | | Deltapilot S | FMB 70 | 6 | 3 | 4 | 100B | 7.x |
| | | Deltapilot S | FMB 70 | 7 | 2 | 1 | 100B | 9.x |
| Gammapilot M | | FMG 60 | 1 | 4 | 2 | 1013 | 7.x | |
| Gammapilot M | | FMG 60 | 3 | 4 | 2 | 1013 | 7.x | |
| Levelflex M | | FMP4x | 3 | 3 | 3 | 1012 | 7.x | |
| Levelflex M | | FMP4x | 4 | 3 | 2 | 1012 | 7.x | |
| Micropilot M | | FMR2x | 3 | 3 | 3 | 100F | 7.x | |
| Micropilot M | | FMR2x | 4 | 4 | 2 | 100F | 7.x | |
| Micropilot M | | FMR2x | 5 | 5 | 2 | 100F | 7.x | |
| Prosonic M | | FMP 4x | 3 | 3 | 3 | 1011 | 7.x | |
| Prosonic M | | FMP4x | 4 | 3 | 2 | 1011 | 7.x | |
| Levelflex FMP5x | | FMP 5x | 1 | 2 | 2 | 1022 | 7.x | |
| Levelflex FMP5x | | FMP 5x | 2 | 2 | 2 | 1022 | 7.x | |
| Micropilot FMR5x | | FMR 5x | 1 | 1 | 1 | 1028 | 11.x | |
| Micropilot FMR5x | | FMR 5x | 2 | 2 | 2 | 1028 | 11.x | |
| Analytical | | Liquiline M pH/ORP | CM42 | 1 | 3 | 3 | 10A0 | 7.x |
| | | Liquiline M pH/ORP | CM42 | 2 | 2 | 2 | 10A0 | 7.x |
| | | Liquiline M Cond | CM42 | 1 | 3 | 3 | 10A1 | 7.x |
| | | Liquiline M Cond | CM42 | 2 | 2 | 2 | 10A1 | 7.x |
| | | Liquiline M Oxygen | CM42 | 1 | 2 | 2 | 10A2 | 7.x |
| Flow | | Promag | 53x | 2 | 2 | 3 | 1042 | 7.x |
| | Promag | 53x/55x | 3 | 1 | 1 | 1042 | 7.x | |
| | Promag | 53x/55x | 4 | 1 | 1 | 1042 | 7.x | |
| | Promag | 53x/55x | 5 | 1 | 1 | 1042 | 7.x | |
| | Promass | 83x | 2 | 2 | 3 | 1051 | 7.x | |
| | Promass | 83x | 3 | 1 | 1 | 1051 | 7.x | |
| | Promass | 83x | 4 | 1 | 1 | 1051 | 7.x | |
| | Promass | 83x | 5 | 1 | 1 | 1051 | 7.x | |
| | Promass | 200 | 1 | 1 | 1 | 1054 | 10.x | |
| | Prosonic Flow | 92x | 1 | 1 | 1 | 1061 | 7.x | |
| | Prosonic Flow | 93x | 1 | 3 | 3 | 1059 | 7.x | |
| | Prosonic Flow | 93x | 2 | 1 | 1 | 1059 | 7.x | |
| | Prosonic Flow | 93x | 3 | 1 | 1 | 1059 | 7.x | |
| | Prosonic Flow | 93x | 4 | 1 | 1 | 1059 | 7.x | |
| | Prowirl | 72x | 1 | 1 | 2 | 1056 | 7.x | |
| | Prowirl | 73x | 1 | 1 | 2 | 1057 | 7.x | |
| | Prowirl | 200 | 1 | 1 | 1 | 1038 | 10.x | |
| | T-Mass | 65x | 1 | 1 | 1 | 1065 | 7.x | |
| | T-Mass | 65x | 2 | 1 | 1 | 1065 | 7.x | |

AMS FF Device List

Package 1.06.00

| Type | Device | Dev Rev. | DD Rev. | CFF Rev. | Device Type | Min Required AMS Version | |
|-------------|---------|----------|---------|----------|-------------|--------------------------|-----|
| Temperature | iTEMP | TMT125 | 1 | 7 | 2 | 10CD | 7.x |
| | iTEMP | TMT162 | 1 | 2 | 3 | 10CC | 7.x |
| | iTEMP | TMT162 | 2 | 2 | 2 | 10CC | 7.x |
| | iTEMP | TMT85 | 1 | 4 | 3 | 10CE | 7.x |
| | iTEMP | TMT85 | 2 | 2 | 1 | 10CE | 7.x |
| | iTemp | TMT | 2 | 3 | 2 | 10CE | 11 |
| Components | Display | RID1x | 1 | 2 | 2 | 10CF | 7.x |

(1) Not supported in AMS V10.0 (for details see Release Notes)

(2) EDD style (AMS V10.0 or higher required)

(3) Not supported in AMS V10.0 or higher (for details see Release Notes)

* New Devices

* Driver Modification