
Level


Pressure


Flow


Temperature


Liquid Analysis


Registration


Systems Components


Services


Solutions

# Manufacturer Information

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

## Simatic PDM HART Package V1.14.00

### 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 | : | Simatic PDM HART Package V1.14.00 |
| Type and order code | : | n.a. |

### 2 Software

| | | |
|---|---|---|
| Previous software version | : | 1.13.00 |
| New software version | : | 1.14.00 |
| 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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# Manufacturer Information

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

☐ 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 enclosured
☒ No

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# Release Notes
# Simatic PDM HART Package V1.14.00

Endress+Hauser Process Solutions AG
Kägenstr. 2
CH 4153 Reinach/BL
Switzerland

Endress+Hauser
People for Process Automation

# Table of Contents

# 1 Revision History

| Package-Version | Addition/Change |
|---|---|
| V1.14.00 | **New Devices added to the package:**<br>▪ Liquiline Cond Rev.1 DD Rev.1<br>▪ Liquiline Oxygen Rev.1 DD Rev.1<br>▪ Liquiline pHORP Rev.1 DD Rev.1<br>▪ Promass 83 Rev.10 DD Rev.2<br>▪ Promag 53 Rev.9 DD Rev.1<br>▪ Promag 200 Rev.2 DD Rev. 1<br>▪ Promass 200 Rev.5 DD Rev. 1<br>▪ Micropilot FMR5x Rev.2 DD Rev.2<br>▪ WirelessHART Adapter SWA70 Rev.2 DD Rev.2<br><br>**Improvements:**<br>▪ Cerabar S Rev.21 DD Rev.7 / (see appendix 5.1.2)<br>▪ Deltabar S Rev.21 DD Rev.7 / (see appendix 5.1.2)<br>▪ Deltapilot S Rev.21 DD Rev.7 / (see appendix 5.1.1)<br>▪ Levelflex FMP5x Rev.1 DD Rev.2<br>▪ Levelflex FMP5x Rev.2 DD Rev.2<br>▪ Levelflex FMP5x Rev.3 DD Rev.2<br>▪ Micropilot FMR5x Rev.1 DD Rev.2<br>▪ Cerabar S Rev.22 DD Rev.3<br>▪ Deltabar S Rev.22 DD Rev.3<br>▪ Deltapilot S Rev.22 DD Rev.3<br>▪ Promass 40 Rev.9 DD Rev.2<br>▪ Promass 80 Rev.9 DD Rev.2<br>▪ Promag 50 Rev.9 DD Rev.2<br>▪ Promag 53 Rev.8 DD Rev.2<br>▪ Prowirl 72 Rev.7 DD Rev.3<br>▪ Prowirl 73 Rev.7 DD Rev.2<br>▪ Prosonic Flow 93 Rev.8 DD Rev.3 |
| V1.13.00 | **New Devices added to the package:**<br>▪ Promag 100 Rev.2 DD Rev.1<br>▪ Promass 100 Rev.2 DD Rev.1<br>▪ Promag 400 mod. Rev.6 DD Rev.1<br>▪ Cerabar S Rev.22 DD Rev.2<br>▪ Deltabar S Rev.22 DD Rev.2<br>▪ Deltapilot S Rev.22 DD Rev.2<br>▪ iTEMP TMT82 Rev.1 DD Rev.2<br>▪ Prowirl 200 Rev.3 DD Rev. 1<br><br>**Improvements:**<br>▪ Cerabar M Rev.1 DD Rev.3<br>▪ Deltabar M Rev.1 DD Rev.3<br>▪ Deltapilot M Rev.1 DD Rev.3<br>▪ Waterpilot Rev.1 DD Rev.3<br>▪ Micropilot M Rev.5 DD Rev.2 |

| | |
|---|---|
| | ▪ iTEMP TMT182 Rev.2 DD Rev.3 |
| V1.12.00 | **New Devices added to the package:**<br>▪ t-mass 150 LT Rev.1 DD Rev.1<br>▪ Promass 200 Rev.4 DD Rev.1<br>▪ Prowirl 200 Rev.2 DD Rev.1<br>▪ iTEMP TMT82 Rev.2 DD Rev.1<br><br>**Improvements:**<br>▪ Cerabar S Rev.21 DD Rev.6 / (look at 5.1.2)<br>▪ Deltabar S Rev.21 DD Rev.6 / (look at 5.1.2)<br>▪ Deltapilot S Rev.21 DD Rev.6 / (look at 5.1.1) |
| V1.11.00 | **New Devices added to the package:**<br>▪ Promag 400 mod. Rev.5 DD Rev.1<br>▪ Prowirl 200 Rev.1 DD Rev.1<br>▪ Levelflex FMP5x Rev.3 DD Rev.1<br><br>Adjustments for PDM V8.x:<br>▪ Cerabar S Rev.21<br>▪ Deltabar S Rev.21<br>▪ Deltapilot S Rev.21<br>▪ Levelflex M Rev.4 |
| V1.10.00 | **New Devices added to the package:**<br>▪ Micropilot FMR5x Rev.1 DD Rev.1<br>▪ Prosonic Flow B 200 Rev.2 DD Rev.1<br>▪ Promag 100 Rev.1 DD Rev.1<br>▪ Promass 100 Rev.1 DD Rev.1<br>▪ Liquiline M CM42 pH/ORP Rev.14 DD Rev.1 / (look at 5.1.4)<br>▪ Liquiline M CM42 Cci Rev.17 DD Rev.1 / (look at 5.1.4)<br>▪ Liquiline M CM42 DO Rev.24 DD Rev.1 / (look at 5.1.4)<br>▪ Promag 400 Rev.2 DD Rev.1<br><br>**Improvements:**<br>▪ Cerabar S Rev.21 DD Rev.4: Russian Update<br>▪ Deltabar S Rev.21 DD Rev.4: Russian Update<br>▪ Deltapilot S Rev.21 DD Rev.4: Russian Update<br><br>Adjustments for PDM V8.x:<br>▪ Levelflex FMP5x Rev.2 DD Rev.1<br>▪ iTEMP TMT82 Rev.1 DD Rev.1<br><br>Please note information to Levelflex FMP5x V1.00.00 under 5.1.1. |
| V1.09.00 | **New Devices added to the package:**<br>▪ Promass 200 Rev.3 DD Rev.1<br>▪ Promag 200 Rev.1 DD Rev.1 |

| | |
|---|---|
| | **Improvements:**<br>▪ Cerabar S Rev.21: After an upload to the PG, the value of the parameter Output Fail Mode in the offline table is consistent with the parameter value of the device.<br>▪ T-mass 150 Rev.1: no duplicate menus available<br>▪ For the following PROWIRL73-devices following improvements were done:<br>o New min.-values:<br>▪ HEAT COEFF. HC1 = 0.07<br>▪ HEAT COEFF. HC2 = 0.76<br>o New default-values:<br>▪ HEAT COEFF. HC1 = 0.076<br>▪ HEAT COEFF. HC2 = 0.76<br>o HART_Sensor_Flow_EH_Prowirl73_Rev4<br>o HART_Sensor_Flow_EH_Prowirl73_Rev5<br>o HART_Sensor_Flow_EH_Prowirl73_Rev6<br>o HART_Sensor_Flow_EH_Prowirl73_Rev7 |
| V1.08.00 | **New Devices added to the package:**<br>▪ Prosonic Flow B 200 Rev.1 DDRev.1<br>▪ t-mass 150 Rev.1 DDRev.1<br>▪ Electronic DP Rev.1 DDRev.1<br><br>**Improvements:**<br>▪ Levelflex FMP5x Rev.2: Device Status in the header is actualised |
| V1.07.00 | **New Devices added to the package:**<br>▪ Liquiline M CM42 Cci Rev.16 DD Rev.1<br>▪ Liquiline M CM42 DO Rev.23 DD Rev.1<br>▪ Liquiline M CM42 pH/ORP Rev.13 DD Rev.1<br><br>**Improvements:**<br>▪ Liquicap M 1.03xx Rev.3 Improvements at the calibration method / Sensorlength<br>▪ Syntax Korrekturen in devices files von folgende Geräte: CerabarS Rev.5-7-10-20-21, DeltabarS Rev.10-20-21, TMD832 Rev.2, ProsonicFlow 93 Rev.7, Promass 84 Rev.8, Promass 93 Rev.7-8 |
| V1.06.00 | **New Devices added to the package:**<br>Prosonic Flow 91 V1.02.00 Rev. 3<br>Prosonic Flow 93 V2.03.00 Rev. 8<br>Promass 200 V1.01.xx Rev.2<br>Liquistation CSFx, V1.02.xx Rev.1<br>Liquiport 2010, CSPx, V1.02.xx Rev.1<br>Liquiline, CM44x, V1.02.xx Rev.1<br>iTEMP TMT142 V1.03.xx Rev.2<br>iTEMP TMT162 V1.03.xx Rev.2<br><br>**Improvements:**<br>Liquiline CM42 pH, V10.05.xx Rev.12<br>Liquiline CM42 DO, V20.03.xx Rev.22<br>Liquiline CM42 Cci, V13.05.xx Rev.15 |
| V1.05.00 | **General:**<br>With PDM V6.0 SP5 HF4, appears the Long Tag in the PDM LifeList, but by changing the tag, they write the Short Tag . Means after rescan appears the same Tag. |

| | |
|---|---|
| | **New Devices added to the package:**<br>Prowirl 73 V1.06.00 Rev7<br>Prowirl 72 V1.06.00 Rev7<br>WirelessHART Adapter SWA70 Rev.1 DD Rev.1<br>iTEMP TMT82 V1.00.00, Rev1 DD Rev1<br><br>**Improvements:**<br>Liquiline CM42 pH, V10.05.xx Rev.12 Upload Probleme und Servicefälle wurden gelöst. |
| V1.04.00 | **General:**<br>Release Notes HA / PB are in separate documents now.<br><br>**New Devices added to the package:**<br>Promag 50, V2.04.00 Rev.9<br>Promag 51, V2.04.00 Rev.9<br>Promag 53, V2.03.00 Rev.8<br>Promag 55, V1.03.00 Rev.4<br>Prosonic Flow 92, V1.01.01 Rev.2<br>Levelflex FMP5x, V1.01.00 Rev.2<br>Liquiline CM42 DO, V20.03.01 Rev.22<br>Liquiline CM42 pH, V10.05.01 Rev.12<br><br>**Improvements:**<br>Promass 40, V3.01.00 Rev.9<br>Promass 80, V3.01.00 Rev.9<br>Promass 83, V3.01.00 Rev.9<br>Promass 84, V3.01.00 Rev.9<br>t-mass65, V1.01.00 Rev.2<br><br>Improvements of value comparison |
| V1.03.00 | **New Devices added to the package:**<br>t-mass 65 V1.01.00 Rev.2<br>Liquiline M Cci CM42 V13.05.01 Rev.15<br>Prosonic Flow 93 2.02.xx Rev.7<br><br>**Improvements:**<br>Gammapilot M / FMG60 1.03.06 Rev.2 Improvements in offline table and Up-/Download.<br>Levelflex FMP5x V1.00.00 Rev. 1 Cosmetic correction (icon).<br>Waterpilot / FMX21 Devices file corrected.<br><br>Various adjustments for the new PDM device driver CD. |
| V1.02.00 | **New Devices added to the package:**<br>Levelflex FMP5x V1.00.00<br>Prowirl 73 V1.05.00<br>Prowirl 72 V1.05.00<br>Promass 40 V3.01.00<br>Promass 80 V3.01.00<br>Promass 83 V3.01.00 |

| | |
|---|---|
| | Promass 84 V3.01.00<br><br>**Improvements:**<br>Deltabar S *MD7* - Installation name changed |
| V1.01.01 | **Improvements:**<br>Cerabar S PM*7* 2.0103 Ident Check improved.<br>Deltabar S PM*7* 2.0103 Ident Check improved.<br><br>**New Devices added to the package:**<br>Promass E 2-wire 8E2B V1.00.00 |
| V1.01.00 | **New Devices added to the package:**<br>Prowirl 73 V1.04.00<br><br>**Improvements:**<br>TMT122 V1.1 Problems with the new Siemens PDM Compiler fixed. The TMT112 is available. |
| V1.00.01 | |
| V1.00.00 | Starting 2010 3rd party libraries are versioned as well according to E+H standards.<br>Format xx.yy.zz<br>xx = Incompatible change of one or multiple driver´s within package, these are not compatible anymore with previous versions (e.g. PDM Driver for V5.3 is not supported anymore by PDM V6.0)<br>yy = Functional change of the package (e.g. new driver or new function within a existing driver), compatibility to previous version is given<br>zz = Correction of the package, driver<br>Simatic PDM Package V1.00.00 replaces the Simatic PDM Package 2009-04<br><br>**New Devices added to the package:**<br>Promag 51 V2.03.00<br>Promag 50 V2.03.00<br>Promag 55 V1.02.00<br>Promag 53 V2.02.00<br>Prowirl 72 V1.04.00<br><br>**Improvements:**<br>Promass 80 V3.00.00 Density parameter corrected, download now supported<br>t-mass 65 V1.00.00 Up/Download behaviour improved |
| 2009-04 | **New Devices added to the package:**<br>Prosonic Flow 91 V1.01.xx<br><br>**Improvements:**<br>Gammapilot M / FMG60 Calibration and System Parameter download improved |
| 2009-03 | **New Devices added to the package:**<br>Cerabar M / PMx5x<br>Deltapilot M / FMB5x<br>Waterpilot / FMX21<br>Prosonic S FMU90 V2.00.xx |

| | |
|---|---|
| | Prosonis S FMU90 V2.01.xx<br><br>**Improvements:**<br>Cerabar S / PMx7x V2.10.xx (Tags could not always be downloaded)<br>Deltabar S / xMP7x V2.10.xx (Tags could not always be downloaded)<br>Deltapilot S / FMB70 V2.10.xx (Tags could not always be downloaded) |
| 2009-02 | **New Devices added to the package:**<br>Deltabar M / PMD55 |
| 2009-01 | **New Devices added to the package:**<br>Levelflex M / FMP4x V1.08.00<br>Liquicap M / FMI5* V1.03.00<br>Promag 50 V2.02.00<br>Promag 51 V2.02.00<br>Prowirl 72 V1.04.00<br><br>**Improvements:**<br>Mypro connection to PDM 6.0 SP3 now possible (IdentCheck). |

# 2 Installation

This chapter describes the standalone installation of the Endress+Hauser drivers.

- Please close all applications before the installation start
- For SIEMENS PDM Version 5.2 Service Pack 1 or lower use the Deviceinstall.exe in the DD setup package.
- For SIEMENS PDM Version 6.0 Service Pack 2 or lower use the tool Manage Device Catalog .
- During the installation warnings could appear in fact of already installed files which are used in different setups.

# 3 Deliverables

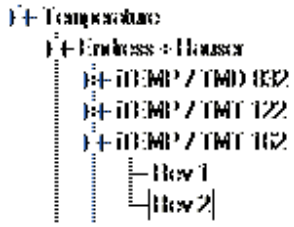
| Component | Description of supported products |
|---|---|
| PDM_HA_ANALYSIS_Devices.zip | DD package HART for all Analytical devices |
| PDM_ HA _FLOW_Devices.zip | DD package (HART or Profibus) for all Flow devices |
| PDM_ HA _LEVEL_Devices.zip | DD package (HART or Profibus) for all Level devices |
| PDM_ HA _PRESSURE_Devices.zip | DD package (HART or Profibus) for all Pressure devices |

| | |
|---|---|
| PDM_ HA _TEMP_Devices.zip | DD package (HART or Profibus) for all Temperature devices |
| Deviceinstall.exe | Installation executable to install the drivers into PDM V5.2 SP1 |

# 4 PDM Device Catalog

The Endress+Hauser devices appear as follows:
Device Family / Device Root
- Device Revision (decimal)

Example
iTEMP / TMT 162
- Rev1
- Rev2




The description shows the detailed SW Version of the device.

Description: Temperature transmitter iTEMP / TMT 162 HART >=V1.03.00 (DevRev 2)

# 5 Known problems and limitations

## 5.1 General

In general we recommend performing an upload before the first commissioning. This ensures data consistency with the device and will prevent possible problems during the download.

PDM6.0SP5 HF4 Known Issue updating to HF4
After the update to HF4 it may happen that installed Profibus devices cannot be opened anymore.
This is a manufacturer independent problem. Please reinstall the original device catalogue to resolve this.
Before using PDM 6.0 SP5 HF4 the first time, please install the PI Library first.

For further questions, please contact the SIEMENS Support.

Endress+Hauser FXA191 / FXA195 HART Modem in conjunction with Simatic PDM is not released. Using it may lead to communication problems.

## 5.1.1 Level

Deltpilot S Rev.21 DD Rev.7:
Further improvements were made for an error-free use in PDM8.2.
Now, the automatic device identification to correct sensor measurement range works correct in PDM8.x.

Note: Update of device version V2.10.xx with DD-Rev.1 to DD-Rev.7:

In general, the new DD-Rev.7 replaced the EDD of device version V2.10.xx (DD-Rev.1), but here the following item to the preservation of the stored project data is to be noted.

For a project in which the device configuration of Deltapilot S Rev.21 V2.10.xx was stored with DD-Rev.1 through the PDM function 'Save' must be noted that the parameters SET LRV and SET URV in this EDD were not changeable and not readable in the offline table.
With the DD-Rev.7 these parameters can now be written and read via the offline table. When updating to DD-Rev.7 it is important to note that the values of these parameters cannot be loaded from the existing project data because they have not been saved!
Always default values are shown. To ensure data consistency between the equipment and project data, there are two options:

- Run an upload. As a result, correct values are read from the device and assigned to the parameters. Save the project data again.
- Open the online dialog to check the current values of the parameters SET LRV and SET URV . Enter these values manually into the offline table. Save this configuration.

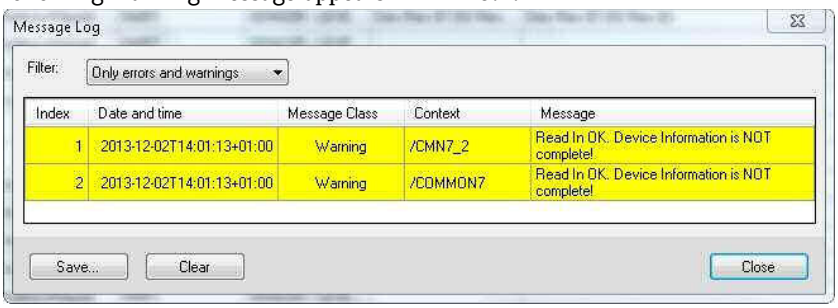
No action necessary by user when updating from DD-Rev.6 to DD-Rev.7.

Levelflex M / Micropilot M / Prosonic M:
If you already installed a level package delete the PDM driver for Micropilot M / Prosonic M / Levelflex M (V1.02.00) manually before you install the new for Version 1.04.00. The driver for V1.02.00 will be reinstalled with the new Setup.

Prosonic S FMU90 HA:
Starting the DD the first time, may take several minutes due to compilation time

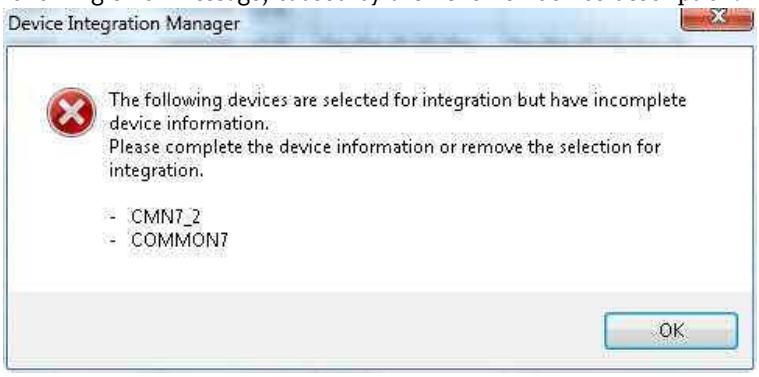
Levelflex FMP5x V1.00.00:
Please apply the following troubleshooting steps in PDM 8.x:

If the level package including Levelflex FMP5x v1.00.00 is reading in by the Device Integration Manager, the following warning message appears in PDM8.x:



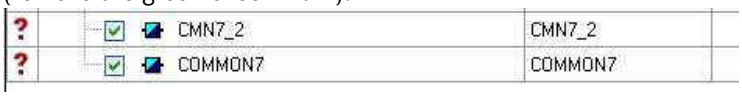
Please close this messages box.

If then the integration process is performed including Levelflex FMP5x V1.00.00, appears at the beginning the following error message, caused by the Levelflex device description:




This error message please confirm with OK .

Now disable in the Device Integration Manager the automatically given DDL-Files CMN7_2 and COMMON7 (remove the green check mark).




Now the integration of the level device description can be perform.

## 5.1.2 Pressure

Deltabar + Cerabar S Rev.21 DD Rev.7:
Further improvements were made for an error-free use in PDM8.2.
Now, the automatic device identification to correct sensor measurement range works correct in PDM8.x.

Note: Update of device version V2.10.xx with DD-Rev.1 to DD-Rev.7:

In general, the new DD-Rev.7 replaced the EDD of device version V2.10.xx (DD-Rev.1), but here the following item to the preservation of the stored project data is to be noted.

For a project in which the device configuration of Cerabar/Deltabar S Rev.21 V2.10.xx was stored with DD-Rev.1 through the PDM function 'Save' must be noted that the parameters SET LRV and SET URV in this EDD were not changeable and not readable in the offline table.
With the DD-Rev.7 these parameters can now be written and read via the offline table. When updating to DD-Rev.7 it is important to note that the values of these parameters cannot be loaded from the existing project data because they have not been saved!
Always default values are shown. To ensure data consistency between the equipment and project data, there are two options:

- Run an upload. As a result, correct values are read from the device and assigned to the parameters. Save the project data again.
- Open the online dialog to check the current values of the parameters SET LRV and SET URV . Enter these values manually into the offline table. Save this configuration.

No action necessary by user when updating from DD-Rev.6 to DD-Rev.7.

Cerabar S PM*7* / Deltabar S *MD7* /Deltapilot S *MD7*:
Before the first download, please perform an upload in advance to ensure data consistency and probable download errors.

### 5.1.3 Flow

Promass 83 Rev 9 / ProsonicFlow 93 Rev 8 / Prowirl72 Rev 7+8
PDM 8.1.1 and PDM8.2:
When loading a online dialog, some devices need a up to 20 seconds until the dialog opens.
When applying the "Messages" button, PDM shows errors because it tries to read parameters which are not currently available in the device due to the hardware IO configuration.
Apart from the loading time there are no limitations using the device.

### 5.1.4 Analysis

Liquiline CM42 pH-ORP V10.07.xx:
Please close the online dialogue "Measured values" in PDM8.1 after first opening and open it again. Only after this "reopen" there will be a correct transfer of the dynamic measurement values.

Liquiline CM42 Cci V13.07.xx:
Please close the online dialogue "Measured values" PDM8.1 after first opening and open it again. Only after this "reopen" there will be a correct transfer of the dynamic measurement values.

When you open the device description in PDM8.x, the parameter "alpha factor" is declared as invalid. After uploading to PG/PC, the status is declared valid and loaded. This false representation of the default value will be fixed within PDM8.1.1.

Liquiline CM42 DO V20.05.xx:
Please close the online dialogue "Measured values" PDM8.1 after first opening and open it again. Only after this "reopen" there will be a correct transfer of the dynamic measurement values.

### 5.1.5 Temperature

Currently there are no limitations known.

# Endress+Hauser PDM HART Device List
# Package 1.14.00

Endress+Hauser
People for Process Automation

| Type | Device | FW Version | Dev Rev | DD Rev | Min Required PDM Version |
|---|---|---|---|---|---|
| Analysis | | | | | |
| | Liquiline CM44x | 1.02.xx | 1 | 1 | 6.0SP5 |
| | Liquiline CM44x | 1.03.xx | 1 | 1 | 6.0SP5 |
| | Liquiline CM44x | 1.04.xx | 1 | 1 | 6.0SP5 |
| | Liquiline CM44x | 1.05.xx | 1 | 1 | 6.0SP5 |
| | Liquiline M CM42 Cci | 13.05.01 | 15 | 1.2 | 6.0 SP4 |
| | Liquiline M CM42 Cci | 13.06.xx | 16 | 1 | 6.0 SP5 |
| | Liquiline M CM42 Cci | 13.07.xx | 17 | 1 | 6.1 |
| | **Liquiline Cond** | **2.02.zz** | **1** | **1** | **6.1** |
| | **Liquiline Oxygen** | **2.02.zz** | **1** | **1** | **6.1** |
| | Liquiline M CM42 DO | 20.03.01 | 22 | 1.2 | 6.0 SP4 |
| | Liquiline M CM42 DO | 20.04.xx | 23 | 1 | 6.0 SP5 |
| | Liquiline M CM42 DO | 20.05.xx | 24 | 1 | 6.1 |
| | **Liquiline pHORP** | **2.02.zz** | **1** | **1** | **6.1** |
| | Liquiline M CM42 pH-ORP | 10.05.xx | 12 | 1.2 | 6.0 SP4 |
| | Liquiline M CM42 pH-ORP | 10.06.xx | 13 | 1 | 6.0 SP5 |
| | Liquiline M CM42 pH-ORP | 10.07.xx | 14 | 1 | 6.1 |
| | Liquiport 2010 CSPx | 1.02.xx | 1 | 1 | 6.0SP5 |
| | Liquistation CSFx | 1.02.xx | 1 | 1 | 6.0SP5 |
| | Liquistation CSFx | 1.03.xx | 1 | 1 | 6.0SP5 |
| | Liquistation CSFx | 1.04.xx | 1 | 1 | 6.0SP5 |
| | Liquistation CSFx | 1.05.xx | 1 | 1 | 6.0SP5 |
| Components | | | | | |
| | WirelessHART Adapter SWA70 | 1.xx.xx | 1 | 1 | 6.0 SP5 |
| | **WirelessHART Adapter SWA70** | **2.xx.xx** | **2** | **1** | **8.1** |
| Flow | | | | | |
| | Promag 200 | 1.00.xx | 1 | 1 | 6.1 |
| | **Promag 200** | **1.01.xx** | **2** | **1** | **6.1** |
| | Promag 23 | 2.0x.xx | 1 | 1 | 5.2 SP1 |
| | Promag 33/35 S | 2.04.0x | 2/1 | 1.2 | 5.1 SP1 |
| | Promag 400 | 1.00.xx | 1 | 1 | 6.1 |
| | Promag 50 | 1.02.xx | 2 | 1 | 5.2 SP1 |
| | Promag 50 | 1.04.xx | 3 | 1 | 5.2 SP1 |
| | Promag 50 | 1.06.xx | 4 | 1 | 5.2 SP1 |
| | Promag 50 | 2.00.xx | 5 | 1 | 5.2 SP1 |
| | Promag 50 | 2.01.xx | 6 | 1 | 6.0 SP1 |
| | Promag 50 | 2.02.xx | 7 | 1 | 6.0 SP2 |
| | Promag 50 | 2.03.xx | 8 | 1 | 6.0 SP4 |
| | **Promag 50** | **2.04.00** | **9** | **2** | **6.0 SP4** |

# Endress+Hauser PDM HART Device List
# Package 1.14.00

Endress+Hauser
People for Process Automation

| Type | Device | FW Version | Dev Rev | DD Rev | Min Required PDM Version |
|---|---|---|---|---|---|
| | Promag 51 | 2.01.xx | 6 | 1 | 6.0 SP1 |
| | Promag 51 | 2.02.xx | 7 | 1 | 6.0 SP2 |
| | Promag 51 | 2.03.xx | 8 | 1 | 6.0SP4 |
| | Promag 51 | 2.04.00 | 9 | 1 | 6.0 SP4 |
| | Promag 53 | 1.02.xx | 2 | 1 | 5.2 SP1 |
| | Promag 53 | 1.04.xx | 3 | 1 | 5.2 SP1 |
| | Promag 53 | 1.06.xx | 4 | 1 | 5.2 SP1 |
| | Promag 53 | 2.00.xx | 5 | 1 | 5.2 SP1 |
| | Promag 53 | 2.01.xx | 6 | 1 | 6.0 SP1 |
| | Promag 53 | 2.02.xx | 7 | 1 | 6.0 SP4 |
| | **Promag 53** | **2.03.xx** | **8** | **2** | **6.0 SP4** |
| | **Promag 53** | **2.07.xx** | **9** | **1** | **6.0 SP5** |
| | Promag 55 | 1.00.xx | 1 | 1 | 6.0 SP1 |
| | Promag 55 | 1.01.xx | 2 | 1 | 5.2 SP1 |
| | Promag 55 | 1.02.xx | 3 | 1 | 6.0 SP4 |
| | Promag 55 | 1.03.00 | 4 | 1 | 6.0 SP4 |
| | Promag 100 | V1.00.xx | 1 | 1 | 6.1 |
| | Promag 100 | V1.01.xx | 2 | 1 | 6.1 |
| | Promag 400 | V1.01.xx | 2 | 1 | 6.0 SP5 |
| | Promag 400 | V1.04.xx | 5 | 1 | 6.1 |
| | Promag 400 | V1.05.xx | 6 | 1 | 6.1 |
| | Promass 200 | 1.01.xx | 2 | 1 | 6.0 SP4 |
| | Promass 200 | 1.02.xx | 3 | 1 | 6.1 |
| | Promass 200 | 1.03.zz | 4 | 1 | 6.1 |
| | **Promass 200** | **1.04.zz** | **5** | **1** | **6.1** |
| | Promass 40 | 1.02.xx | 2 | 1 | 5.2 SP1 |
| | Promass 40 | 1.04.xx | 3 | 1 | 5.2 SP1 |
| | Promass 40 | 1.05.xx | 4 | 1 | 5.2 SP1 |
| | Promass 40 | 1.06.xx | 5 | 1 | 5.2 SP1 |
| | Promass 40 | 2.00.xx | 6 | 1 | 5.2 SP1 |
| | Promass 40 | 2.02.xx | 8 | 1 | 6.0 SP1 |
| | **Promass 40** | **3.01.xx** | **9** | **2** | **6.0 SP4** |
| | Promass 80 | 1.02.xx | 2 | 1 | 5.2 SP1 |
| | Promass 80 | 1.04.xx | 3 | 1 | 5.2 SP1 |
| | Promass 80 | 1.05.xx | 4 | 1 | 5.2 SP1 |
| | Promass 80 | 1.06.xx | 5 | 1 | 5.2 SP1 |
| | Promass 80 | 2.00.xx | 6 | 1 | 5.2 SP1 |
| | Promass 80 | 2.02.xx 3.00.xx | 8 | 1.1 | 6.0 SP4 |
| | **Promass 80** | **3.01.xx** | **9** | **2** | **6.0 SP4** |
| | Promass 83 | 1.02.xx | 2 | 1.0.3 | 5.2 SP1 |

# Endress+Hauser PDM HART Device List
# Package 1.14.00

Endress+Hauser
People for Process Automation

| Type | Device | FW Version | Dev Rev | DD Rev | Min Required PDM Version |
|---|---|---|---|---|---|
| | Promass 83 | 1.04.xx | 3 | 1.0.3 | 5.2 SP1 |
| | Promass 83 | 1.05.xx | 4 | 1.0.4 | 5.2 SP1 |
| | Promass 83 | 1.06.xx | 5 | 1.0.5 | 5.2 SP1 |
| | Promass 83 | 2.00.xx | 6 | 1.0.6 | 5.2 SP1 |
| | Promass 83 | 2.01.xx | 7 | 1 | 6.0 SP1 |
| | Promass 83 | 2.02.xx | 8 | 1 | 6.0 SP1 |
| | Promass 83 | 3.01.xx | 9 | 1.1 | 6.0 SP4 |
| | **Promass 83** | **3.01.xx** | **9** | **2** | **6.0 SP5** |
| | **Promass 83** | **3.07.xx** | **10** | **2** | **6.0 SP5** |
| | Promass 84 | 2.02.xx | 8 | 1 | 6.0 SP1 |
| | Promass 84 | 3.01.xx | 9 | 1.1 | 6.0 SP4 |
| | Promass 100 | V1.00.xx | 1 | 1 | 6.1 |
| | Promass 100 | V1.01.xx | 2 | 1 | 6.1 |
| | Prosonic Flow 90 | 1.04.xx | 2 | 1 | 5.2 SP1 |
| | Prosonic Flow 90 | 1.06.xx | 3 | 1 | 5.2 SP1 |
| | Prosonic Flow 90 | 2.00.xx | 4 | 1 | 5.2 SP1 |
| | Prosonic Flow 90 | 2.01.xx | 5 | 1 | 5.2 SP1 |
| | Prosonic Flow 91 | 1.00.xx | 1 | 1 | 6.0 SP1 |
| | Prosonic Flow 91 | 1.01.xx | 2 | 2 | 6.0 SP2 |
| | Prosonic Flow 91 | 1.02.xx | 3 | 1 | 6.0 SP5 |
| | Prosonic Flow 92 | 1.00.xx | 1 | 1 | 6.0 SP1 |
| | Prosonic Flow 92 | 1.01.xx | 2 | 1 | 6.0 SP4 |
| | Prosonic Flow 93 | 1.04.xx | 2 | 1 | 5.2 SP1 |
| | Prosonic Flow 93 | 1.05.xx | 3 | 1 | 5.2 SP1 |
| | Prosonic Flow 93 | 1.06.xx | 4 | 1 | 5.2 SP1 |
| | Prosonic Flow 93 | 2.00.xx | 5 | 1 | 5.2 SP1 |
| | Prosonic Flow 93 | 2.01.xx | 6 | 1 | 5.2 SP1 |
| | Prosonic Flow 93 | 2.02.xx | 7 | 1 | 6.0 SP4 |
| | **Prosonic Flow 93** | **2.03.00** | **8** | **3** | **6.0 SP5** |
| | Prosonic Flow B 200 | 1.00.xx | 1 | 1 | 6.0 SP5 |
| | Prosonic Flow B 200 | 1.01.xx | 2 | 1 | 6.1 |
| | Prowirl 70 | 1.01.0x | 1 | 1.2 | 5.1 SP1 |
| | Prowirl 72 | 1.00.xx-1.01.xx | 1 | 1 | 5.2 SP1 |
| | Prowirl 72 | 1.02.00 | 3 | 1 | 5.2 SP1 |
| | Prowirl 72 | 1.03.xx | 4 | 1 | 6.0 SP1 |
| | Prowirl 72 | 1.04.xx | 5 | 1 | 6.0 SP2 |
| | Prowirl 72 | 1.05.xx | 6 | 1 | 6.0 SP4 |
| | **Prowirl 72** | **1.06.xx** | **7** | **3** | **6.0 SP5** |
| | Prowirl 73 | 1.00.xx | 1 | 1 | 5.2 SP1 |

# Endress+Hauser PDM HART Device List
# Package 1.14.00

Endress+Hauser
People for Process Automation

| Type | Device | FW Version | Dev Rev | DD Rev | Min Required PDM Version |
|---|---|---|---|---|---|
| | Prowirl 73 | 1.01.xx | 2 | 1 | 5.2 SP1 |
| | Prowirl 73 | 1.02.xx | 3 | 1 | 5.2 SP1 |
| | Prowirl 73 | 1.03.xx | 4 | 1 | 6.0 SP1 |
| | Prowirl 73 | 1.04.xx | 5 | 1 | 6.0 SP4 |
| | Prowirl 73 | 1.05.xx | 6 | 1 | 6.0 SP4 |
| | **Prowirl 73** | **1.06.xx** | **7** | **2** | **6.0 SP5** |
| | Prowirl 77 | 1.00.xx | 1 | 1.1 | 5.1 SP1 |
| | Prowirl 200 | 1.00.xx | 1 | 1 | 6.1 |
| | Prowirl 200 | 1.01.xx | 2 | 1 | 6.1 |
| | Prowirl 200 | 1.02.xx | 3 | 1 | 6.1 |
| | t-mass 150 | 1.00.xx | 1 | 1 | 6.0 SP5 |
| | t-mass 150 LT | 1.00.xx | 1 | 1 | 6.1 |
| | t-mass 65 | 1.00.xx | 1 | 1.1 | 6.0 SP4 |
| | t-mass 65 | 1.01.xx | 2 | 1.1 | 6.0 SP4 |
| Level | | | | | |
| | Deltapilot M / FMB50 | 1.00.zz | 1 | 3 | 6.0 SP2 |
| | Deltapilot S / FMB70 | 2.1y.zz | 21 | 6 | 6.0 SP5 |
| | **Deltapilot S / FMB70** | **2.1y.zz** | **21** | **7** | **6.0 SP5** |
| | **Deltapilot S / FMB70** | **2.20.zz** | **22** | **3** | **6.1** |
| | Deltapilot S / DB5x | 2.0 | 2 | 1.1 | 5.2 SP1 |
| | Electronic DP / FMD72 | 1.00.xx | 1 | 1 | 6.0 SP5 |
| | Gammapilot M / FMG60 | 1.02.00 | 2 | 1.1 | 6.0 SP2 |
| | Gammapilot M / FMG60 | 1.03.xx | 2 | 1.2 | 6.0 SP2 |
| | **Levelflex FMP5x** | **1.00.00** | **1** | **2** | **6.0 SP4** |
| | **Levelflex FMP5x** | **1.01.xx** | **2** | **2** | **6.0 SP5** |
| | **Levelflex FMP5x** | **1.02.00** | **3** | **2** | **6.1** |
| | Levelflex M / FMP4x | 1.02.xx | 2 | 1.2 | 5.2 SP1 |
| | Levelflex M / FMP4x | 1.04.xx | 4 | 5 | 5.2 SP1 |
| | Levelflex M Int / FMP4x | 1.08.xx | 8 | 1 | 6.0 SP 2 |
| | Liquicap M / FMI5x | 1.03.00 | 3 | 2 | 5.2 SP1 |
| | Micropilot II / FMR23x | 2.0 | 2 | 1.5 | 5.1 SP1 |
| | Micropilot M / FMR24x-25x | 1.05.00 | 5 | 2 | 5.2 SP1 |
| | Micropilot M / FMR250 | 1.04.00 | 4 | 1 | 5.2 SP1 |
| | Micropilot M / FMR2xx | 1.01.xx | 1 | 1.8 | 5.2 SP1 |
| | Micropilot M / FMR2xx | 1.02.xx | 2 | 1.8 | 5.2 SP1 |
| | Micropilot M / FMR2xx | 1.04.00 | 4 | 1.8 | 5.2 SP1 |
| | **Micropilot / FMR5x** | **1.00.xx** | **1** | **2** | **6.0 SP5** |
| | **Micropilot / FMR5x** | **1.01.00** | **2** | **2** | **8.1 SP1** |
| | Prosonic M / FMU4x | 1.02.00 | 2 | 2 | 5.2 SP1 |

# Endress+Hauser PDM HART Device List
# Package 1.14.00

Endress+Hauser
People for Process Automation

| Type | Device | FW Version | Dev Rev | DD Rev | Min Required PDM Version |
|---|---|---|---|---|---|
| | Prosonic M / FMU4x | 1.04.00 | 4 | 2 | 5.2 SP1 |
| | Prosonic S / FMU90 | 1.00.02 | 1 | 1.1 | 6.0 SP2 |
| | Prosonic S / FMU90 | 2.00.xx | 2 | 1 | 6.0 SP2 |
| | Prosonic S / FMU90 | 2.01.xx | 3 | 1 | 6.0 SP2 |
| | Waterpilot M / FMX21 | 1.00.zz | 1 | 3 | 6.0 SP2 |
| Pressure | | | | | |
| | Cerabar M / PMx 5x | 1.00.zz | 1 | 3 | 6.0 SP2 |
| | Cerabar M / PMx4x | 1.0...1.2 | 1 | 1.2 | 5.2 SP1 |
| | Cerabar S / PMx x3x | 5.0 | 5 | 1.3 | 5.1 SP1 |
| | Cerabar S / PMx x3x | 7.0 | 7 | 1.3 | 5.1 SP1 |
| | Cerabar S / PMx7x | 1.00.xx | 10 | 1 | 5.1 SP1 |
| | Cerabar S / PMx7x | 2.00.xx | 20 | 3 | 5.1 SP1 |
| | Cerabar S / PMx7x | 2.1y.zz | 21 | 6 | 6.0 SP5 |
| | **Cerabar S / PMx7x** | **2.1y.zz** | **21** | **7** | **6.0 SP5** |
| | **Cerabar S / PMx7x** | **2.20.zz** | **22** | **3** | **6.1** |
| | Deltabar M / PMD 55 | 1.00.zz | 1 | 3 | 6.0 SP2 |
| | Deltabar S / xMD7x | 1.00.xx | 10 | 1 | 5.1 SP1 |
| | Deltabar S / xMD7x | 2.00.xx | 20 | 3 | 5.1 SP1 |
| | Deltabar S /xMD7x | 2.1y.zz | 21 | 6 | 6.0 SP5 |
| | **Deltabar S /xMD7x** | **2.1y.zz** | **21** | **7** | **6.0 SP5** |
| | **Deltabar S /xMD7x** | **2.20.zz** | **22** | **3** | **6.1** |
| | Deltabar S / xMD x3x | 5.0 | 5 | 1.3 | 5.1 SP1 |
| | Deltabar S / xMD x3x | 7.0 | 7 | 1.3 | 5.1 SP1 |
| | Deltapilot M / FMD 5x | 1.00.00 | 1 | 2 | 6.0 SP2 |
| Temperature | | | | | |
| | iTEMP TMT122 / TMT112 | 1.1 | 2 | 1.5 | 5.1 SP1 |
| | iTEMP TMT142 | 1.03.xx | 2 | 3 | 6.0 SP4 |
| | iTEMP TMT162 | 1.00.00...1.02.00 | 1 | 1 | 5.2 SP1 |
| | iTEMP TMT162 | 1.03.xx | 2 | 3 | 6.0 SP5 |
| | iTEMP TMT162 | 2.0 | 2 | 2 | 5.2 SP1 |
| | iTEMP TMT182 | 1.0 | 1 | 1.4 | 5.1 SP1 |
| | iTEMP TMT182 | 1.1 | 2 | 1.4 | 5.1 SP1 |
| | iTEMP TMT82 | 1.00.00 | 1 | 1 | 6.0 SP5 |
| | iTEMP TMT82 | 1.00.zz | 1 | 2 | 6.1 |
| | iTEMP TMT82 | 1.01.zz | 2 | 1 | 6.1 |
| | iTEMP TMT82 | 1.01.zz | 2 | 3 | 6.1 |
| | smartgrad TMD832 | 1.2...1.3 | 2 | 1.3 | 5.2 SP1 |

* New Devices
* Driver Modification