



Manufacturer Information

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

Simatic PDM PROFIBUS Package V1.12.00

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 PROFIBUS Package V1.12.00
 Type and order code : n.a.

2 Software

Previous software version : 1.11.00
 New software version : 1.12.00
 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

Simatic PDM PROFIBUS Package V1.12.00

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1 Revision History

Package-Version	Addition/Change
V1.12.00	<p><u>New Devices added to the package:</u></p> <ul style="list-style-type: none"> ▪ PA Prowirl 200 Rev.2 DD Rev.1 ▪ DP Promass 100 Rev.2 DD Rev.1 ▪ DP Promag 100 Rev.2 DD Rev.1 ▪ PA Promag 200 Rev.1 DD Rev.1 ▪ PA Liquiline M pHORP CM42 Rev.1 DD Rev.1 ▪ PA Liquiline M Cond CM42 Rev.1 DD Rev.1 ▪ PA Liquiline M Oxygen CM42 Rev.1 DD Rev.1 ▪ PA Levelflex FMP5x Rev.2 DD Rev.1 ▪ PA Micropilot FMR5x Rev.2 DD Rev.1 ▪ PA Promass 200 Rev.2 DD Rev.1
V1.11.00	<p><u>New Devices added to the package:</u></p> <ul style="list-style-type: none"> ▪ DP Liquiline CM44 Rev.3 DD Rev.1 ▪ DP Liquistation CSF48 Rev.3 Rev.1 ▪ DP Promag 400 Rev.1 DD Rev.1 ▪ DP Prosonic S / FMU90 Rev. 3 DD Rev. 2 ▪ DP Prosonic S / FMU95 Rev. 2 DD Rev. 2 <p><u>Improvements:</u></p> <ul style="list-style-type: none"> ▪ PA Micropilot M FMR2xx V1.02.xx ▪ PA Micropilot M FMR2xx V1.04.xx ▪ PA Micropilot M FMR25x V1.04.xx ▪ PA Micropilot M FMR24x-25x V1.05.xx ▪ PA TMT162 Rev.2 DD Rev.2 ▪ PA TMT84 Rev.2 DD Rev.2 ▪ PA Prosonic Flow 93 Rev.6 DD Rev.2
V1.10.00	<p><u>New Devices added to the package:</u></p> <ul style="list-style-type: none"> ▪ DP Promass 100 Dev. Rev.1 DD Rev.1 / (See 5.1.3) ▪ DP Promag 100 Dev. Rev.1 DD Rev.1 / (See 5.1.3) ▪ PA Prowirl 200 Dev. Rev.1 DD Rev.1 <p><u>Improvements:</u></p> <ul style="list-style-type: none"> ▪ PA Mycom S CPM 153 pH Rev.2 V1.2x ▪ PA Mycom S CLM 153 Lf. Ind. Rev.2 V1.2x ▪ PA Mycom S CLM 153 Lf. Cond. Rev.2 V1.2x ▪ PA ProsonicFlow93 Rev.6 ▪ PA Deltapilot S FMB 70 V4.01.zz / (Siehe 5.1.1) ▪ PA Deltabar S xMD 7x V4.01.zz / (Siehe 5.1.2) ▪ PA Cerabar S PMx 7x V4.01.zz / (Siehe 5.1.2) ▪ PA Cerabar M PMx5x, V1.00.00 ▪ PA Deltabar M PMD55, V1.00.00 ▪ PA Deltapilot M FMB5x, V1.00.00
V1.09.00	<p><u>New Devices added to the package:</u></p> <ul style="list-style-type: none"> ▪ PA Promass 200 Rev.1 V1.00.zz ▪ PA Liquiline M pH-ORP 10.07.xx

	<ul style="list-style-type: none"> ▪ PA Liquiline M Cci 13.07.xx ▪ PA Liquiline M DO 20.05.xx ▪ PA Deltapilot S FMB 70 V4.01.zz ▪ PA Deltabar S xMD 7x V4.01.zz ▪ PA Cerabar S PMx 7x V4.01.zz ▪ PA Micropilot FMR5x Rev.1 V1.00.zz <p>Improvements:</p> <ul style="list-style-type: none"> ▪ Mycom S CPM 153 pH Rev.2 V1.2x - Ident Check changed ▪ Mycom S CLM 153 Lf. Ind. Rev.2 V1.2x - Ident Check changed ▪ Mycom S CLM 153 Lf. Cond. Rev.2 V1.2x - Ident Check changed <p><u>Adjustments for PDM V8.x:</u></p> <ul style="list-style-type: none"> ▪ PA Micropilot M FMR2xx V1.02.xx / (See 4.1.1) ▪ PA Micropilot M FMR2xx V1.04.xx / (See 4.1.1) ▪ PA Micropilot M FMR25x V1.04.xx / (See 4.1.1) ▪ PA Micropilot M FMR24x-25x V1.05.xx / (See 4.1.1) ▪ PA Promass 83 Rev.8 V3.06.01 ▪ PA Promass 83 V2.00.01 - V2.02.xx ▪ DP Promass 83 V2.00.01 - V2.02.xx ▪ PA Promass 80 V2.00.01 - V2.02.xx ▪ PA Promag 53 Rev.7 V3.06.01 ▪ PA Deltapilot S FMB 70 V4.00.xx ▪ PA Deltabar S xMD 7x V4.00.xx ▪ PA Cerabar S PMx 7x V4.00.xx ▪ PA Cerabar M PMx 4x V1.2 ▪ PA Cerabar S PMx x3x V2.x ▪ PA Deltabar S xMD x3x PA V2.x ▪ PA Levelflex FMP5x V1.00.zz
V1.08.01	<p>Improvements:</p> <p>DP_Sensor_Flow_EH_ProsonicFlow93_Rev6 (Revision-No. conformed) PA_Sensor_Flow_EH_ProsonicFlow93_Rev5 (Revision-No. conformed) PA_Sensor_Flow_EH_ProsonicFlow93_Rev6 (Revision-No. conformed) DP_Sensor_Flow_EH_Promass83_Rev7 (Up-Download improved) DP_Sensor_Flow_EH_Promass83_Rev8 (Up-Download improved) PA_Sensor_Flow_EH_Prowirl73_Rev3</p> <ul style="list-style-type: none"> ▪ New min.-values: HEAT COEFF. HC1= 0.07 HEAT COEFF. HC2 = 0.76 ▪ New default-values: HEAT COEFF. HC1 = 0.076 HEAT COEFF. HC2 = 0.76
V1.08.00	<p>New Devices added to the package:</p> <ul style="list-style-type: none"> ▪ Liquiline pH/ORP 10.06.xx ▪ Liquiline Cci 13.06.xx ▪ Liquiline DO 20.04.xx <p>Improvements:</p> <p>Liquiline M pH/ORP V10.03.xx-V10.05.xx</p> <ul style="list-style-type: none"> ▪ Default description in PDM changed from '_____' to 'Liquiline M CM42 pH/ORP'. <p>Liquiline M Cci V13.05.xx</p> <ul style="list-style-type: none"> ▪ Default description in PDM changed from '_____' to 'Liquiline M CM42 conductivity'. <p>Liquiline M DO V20.03.03</p> <ul style="list-style-type: none"> ▪ Changes in the 'Devices-File', to show all revisions among each other.

	<p>TMT84 Rev.2 devices file has been modified with a new ObjType-Number.</p> <p>In following device descriptions the device pictures were changed, which are shown in the SIMATIC Manager HW-Konfig.</p> <ul style="list-style-type: none"> ▪ Cerabar M V1.00.00 / (See 4.1.2) ▪ Deltabar M V1.00.00 / (See 4.1.2) ▪ Deltapilot M V1.00.00 / (See 4.1.2)
V1.07.00	<p>Improvements: Proline DP PDM Update – Neue GSD Datei implementiert</p> <ul style="list-style-type: none"> ▪ Promag 50 Rev.7 DD Rev.1.1 ▪ Promag 53 Rev.7 DD Rev. 1.1 ▪ Promag 55 Rev.1 DD Rev. 1.1 ▪ Promass 83 Rev.8 DD Rev.1.1 ▪ Prosonic Flow 93 Rev.6 DD Rev.1.1 ▪ t-mass 65 Rev.2 DD Rev.1.1 ▪ Liquiline M pH-ORP Rev.2 ▪ Liquiline M Cci Rev.2 ▪ Liquiline M DO Rev.2 <p>Syntax corrections in devices files of several devices.</p>
V1.06.00	<p>New Devices added to the package: TMT162 Rev2 V1.01.xx TMT84 Rev2 V1.01.xx Levelflex FMP5x V1.00.xx Rev.1</p> <p>Improvements: TMT162 Rev1 V1.00.xx – Support for PDM V5.2 TMT84 Rev1 V1.00.xx – Support for PDM V5.2 Promass83 Rev7 V3.04.xx – Warning due limit violation fixed Promass83 Rev8 V3.06.xx – Warning due limit violation fixed</p>
V1.05.00	<p>Improvements: Promass 83 Rev6 – File names corrected Deltapilot S Evo V4.00.xx – Improvements of the offline parametrization Prosonic T Profile2 – Problems with the PC/PG Up-Download fixed / File names corrected Cerabar M PMx5x, V1.00.00 Rev.1 – Improvements for PDM V7 Deltabar M PMD55, V1.00.00 Rev.1 – Improvements for PDM V7 Deltapilot M FMB5x, V1.00.00 Rev.1 – Improvements for PDM V7</p> <p><u>In all 3 devices fixed:</u> Download problem after Offline config on AI parameters</p> <p>Micropilot M FMR25x, V1.05.00 Rev.1 – Improvements Linearization and PDM V7</p>
V1.04.00	<p>General: Release Notes HA / PB are in separate documents now.</p> <p>New Devices added to the package: Cerabar M PMx5x, V1.00.00 Rev.1 Deltabar M PMD55, V1.00.00 Rev.1 Deltapilot M FMB5x, V1.00.00 Rev.1 Liquiline CM42 DO, V20.03.03*</p>

	*For this device is more information available, please refer to chapter 5
V1.03.00	<p><u>New Devices added to the package:</u> Prosonic Flow 92 Rev.2 1.01.xx</p> <p><u>Improvements:</u> Cerabar S / Deltabar S / Deltapilot S Profile 2, Profile 3 – Improved representation in the Device Catalog. Gammapilot FMG60 1.03.xx Rev.2 – Improvements of default values.</p> <p>Different corrections for the new PDM Device Catalog CD.</p>
V1.02.00	<p><u>New Devices added to the package:</u> Mycom S PH V1.61 PA</p> <p><u>Improvements:</u> Promag 50 V3.06.01 PA Promag 53 V3.06.01 PA Promag 55 V3.06.01 PA Promass 80 V3.06.01 PA Promass 83 V3.06.01 PA Prosonic Flow 93 V3.06.01 PA t-mass 65 V3.06.01 PA</p> <p>Promag 50 V3.06.00 DP Promag 53 V3.06.00 DP Promag 55 V3.06.00 DP Promass 83 V3.06.00 DP Prosonic Flow 93 V3.06.00 DP t-mass 65 V3.06.00 DP</p> <p>In all devices a new and improved GSD file is added.</p>
V1.01.01	<p><u>Improvements:</u> t-mass 65 V3.06.01 PA – Installation problem resolved. t-mass 65 V3.06.00 DP – Installation problem resolved. Gammapilot M FMG60 PA V1.02.xx – 1.03.xx – Device Catalog details improved. Liquiline M ph-ORP CM42 V10.05.xx - Installation problem resolved. Smartec S CLD13* PA 1.53 - Installation problem resolved. Prosonic Flow 92 PA V1.00.xx – Default value to support download during cyclic communication changed – see also chapter 5.</p> <p>Different preparations for PDM V6.0 SP5 HF4.</p>
V1.01.00	<p><u>New Devices added to the package:</u> Promag 50 V3.06.01 PA Promag 53 V3.06.01 PA Promag 55 V3.06.01 PA Promass 80 V3.06.01 PA Promass 83 V3.06.01 PA t-mass 65 V3.06.01 PA t-mass 65 V3.06.00 DP Promag 50 V3.06.00 DP Promag 53 V3.06.00 DP Promag 55 V3.06.00 DP</p>

	<p>Improvements: t-mass 65 3.04.00 DP – Wrong folder description fixed Promass 83 3.04.00 DP – Replaces the old Rev7 driver Promass 83 3.06.00 DP – Default values changed</p>
V1.00.01	<p>Improvements: Promag50_53_Rev2 – Error with IdentCheck is resolved Promass 80_83 Rev2 – Error with IdentCheck is resolved</p>
V1.00.00	<p>Starting 2010 3rd party libraries are versioned as well according to E+H standards. Format xx.yy.zz 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) yy = Functional change of the package (e.g. new driver or new function within a existing driver), compatibility to previous version is given zz = Correction of the package, driver Simatic PDM Package V1.00.00 replaces the Simatic PDM Package 2009-04</p> <p><u>New Devices added to the package:</u> Promass 83 DP V3.06.00 Prosonic Flow 93 DP V3.06.00 Prosonic Flow 93 PA V3.06.00</p> <p><u>Improvements:</u> Deltapilot S FMB70 V4.00.10 Operating modes improved Deltabar S xMD7x V4.00.10 Operating modes improved Cerabar S PMx7x V4.00.10 Operating modes improved Liquiline M Cci CM42 V13.05.00 PDM and cyclic communication now supported Liquiline M pH-ORP CM42 V10.05.00 PDM and cyclic communication now supported</p>
2009-04	<p><u>Improvements:</u> Prosonic Flow 92 PA supports download with cyclic communication Promass 83 DP / 3.04.00 Implemented some important improvements Gammapilot M / FMG60 Ident Check improved Cerabar S / PMx7x V3.00.10/4.00.xx supports table editing Deltabar S / xMD7x V3.00.10/4.00.xx supports table editing Deltapilot S / FMB70 V4.00.xx supports table editing Liquiline M / CM42 ph TAG and Ident Number behaviour improved Liquiline M / CM42 cci TAG and Ident Number behaviour improved</p>
2009-03	<p><u>New Devices added to the package:</u> Prosonic S FMU90 V2.01.xx</p> <p><u>Improvements:</u> Prosonis S FMU90 V2.00.xx Rev2 (functional relevants correctures) Prosonis S FMU95 V1.00.xx Rev1 (functional relevants correctures) Prosonis S FMU95 V1.01.xx Rev2 ((functional relevants correctures)</p>
2009-02	<p><u>Improvements:</u> Prosonic Flow 90 PA /V2.03.xx (IDENT CHECK corrected)</p>

2009-01	<p><u>New Devices added to the package:</u> Prosonic S / FMU95 DP / V1.00.00 Prosonic S / FMU95 DP / V1.01.00 iTEMP / TMT162 / V1.00.xx</p> <p><u>Minor Corrections</u> Prosonic Flow 90 Rev2 Prosonic Flow 93 Rev2 Prosonic Flow 90 Rev3 Prosonic Flow 93 Rev3 Deltapilot S DB5* Cerabar S PM**3* Deltabar S *MD*3*</p> <p><u>Improvements:</u> Prosonic Flow 92 PA supports download during cyclic communication.</p>
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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.

2 Deliverables

Component	Description of supported products
PDM_PB_ANALYSIS_Devices.zip	DD package Profibus for all Analytical devices
PDM_PB_FLOW_Devices.zip	DD package Profibus for all Flow devices
PDM_PB_LEVEL_Devices.zip	DD package Profibus for all Level devices
PDM_PB_PRESSURE_Devices.zip	DD package Profibus for all Pressure devices
PDM_PB_TEMP_Devices.zip	DD package Profibus for all Temperature devices
Deviceinstall.exe	Installation executable to install the drivers into PDM V5.2 SP1

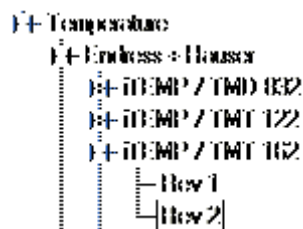
3 PDM Device Catalog

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)

4 Known problems and limitations

4.1 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.

4.1.1 Level

Deltapilot S FMB 70 V4.01.zz / Package V1.10.00:

Note when using PDM8.x versions < PDM V8.2:

When integrating this correction, the PDM device description of the predecessor device version (4.00.xx) is cleared by an error behavior of the PDM software. To use the previous version of the device associated PDM device description must be reintegrated. Then both PDM device descriptions of device versions 4.00.xx and 4.01.zz are available again.

Micropilot M / Package V1.09.00:

- PA Micropilot M FMR2xx V1.02.xx
- PA Micropilot M FMR2xx V1.04.xx
- PA Micropilot M FMR25x V1.04.xx
- PA Micropilot M FMR24x-25x V1.05.xx

To use the improvements, please first uninstall manually the old PDM-Device Descriptions of Micropilot M devices.

The old Device Descriptions are on SIEMENS-Device catalogue within version 2#2013.

Deltapilot M – V1.00.00 / Package V1.08.00:

To use this improvement, please first uninstall manually the old PDM-Device Description of Deltapilot M – V1.00.00.

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.

Deltapilot S FMB70:

The device has been moved from Folder “Pressure” to “Level”

Please uninstall the device integration for the devices in PDM before you start the update.

Prosonic S FMU90/95 DP:

Starting the DD the first time, may take several minutes due to compilation time

Micropilot FMR5x 1.01.xx / Package 1.12.00

Starting the envelope curve in PDM6.1 causes a crash of the PDM application. This behavior does not appear in PDM8.1.

4.1.2 Pressure

Deltabar S xMD 7x V4.01.zz / Cerabar S PMx 7x V4.01.zz / Package V1.10.00:

Note when using PDM8.x versions < PDM V8.2:

When integrating these corrections, the PDM device descriptions of the predecessor device versions (3.00.xx and 4.00.xx) are deleted by an error behavior of the PDM software. To use the previous versions of the devices associated PDM device descriptions must be reintegrated. Then all three PDM device descriptions of device versions 3.00.xx, 4.00.xx and 4.01.zz are available again.

Cerabar M / Deltabar M - V1.00.00 / Package V1.08.00:

To use the improvements, please first uninstall manually the old PDM-Device Descriptions of Cerabar M and Deltabar M - V1.00.00.

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.

4.1.3 Flow

Promass 83 Rev 8:

PDM 8.1.1 and PDM8.2:

When loading an 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.

Promass 100 / Promag 100 DP V1.00.01:

PDM6.1: After GSD-Installation the device in the device catalog is listed at Profibus PA instead at Profibus DP.

Promag 50/53, Promass 80/83 and Prosonic Flow 90/93 V2.03.xx:

Please uninstall the device integration for the devices with V 2.03.00 in PDM before you start the update.

Prowirl 72/73 Software V1.00.xx - V1.02.xx:

Please uninstall the device integration for the devices with V1.00.xx - V1.02.xx in PDM before you start the update.

Prowirl 72/73 Software V1.03.0x :

After changing the address via PDM the device must be restarted otherwise it is not possible to get a connection on the new address.

Proconic Flow 92 Software V1.00.xx:

If the device does not appear in the hardware catalog, please install the objtypes.csv-File which you find under ... \DD_setup\PA_Sensor_Flow_EH_ProsonicFlow92_Rev1\common.

Please, follow the advice in the Installationshinweis.txt / InstallationNode.txt.

During cycl. data exchange an abort during download to device may occur. In this case please check if the following parameter is correctly configured:

Ultrasonic Flowmeter -> Identification -> Device -> Parameter „Cycl. Data exchange active“ = „Yes“

Promass 200 Software V1.00.0x :

Automatic device identification in Simatic device catalog is not possible. Device has to be selected manually.

4.1.4 Analysis

General

If you install the PDM driver it can happen that the Liquiline devices can not be found in the hardware catalog from Siemens. Please install the included GSD manually.

Liquiline CM 42 pH-ORP V10.07.xx:

For analog pH measurement the activation of the calibration timer has to be done locally at the device.

For analog pH measurement the configuration of parameter 'Sensor type' and 'Measured value' has to be done via the online dialogue.

Liquiline CM 42 pH-ORP V10.06.xx:

Following parameters are not supported in the Up/download and online dialog :

Reference temp, Temperature 1, Temperature 2, Disp. sensorstatus

Please handle those parameters over the device display or contact your Endress+Hauser support.

This issue will be fixed within the next package.

Liquiline CM 42 Cci V13.06.xx:

Following parameters are not supported in the Up/download and online dialog :

Cell constant, Operating time, Response delay, Hysteresis

Please handle those parameters over the device display or contact your Endress+Hauser support.

This issue will be fixed within the next package.

Liquiline CM 42 Cci V10.03.xx – V10.05.xx:

Up/Download error message comes around 6% if there is a memosense configured and not really connected.

Liquiline CM42 DO, V20.03.xx:

In the measured value dialogue the units are not updated when the main operation mode is changed. This will be solved with the next package.

Liquiline M pHORP,Cond und Oxygen CM42 V2.01.xx DD Rev.1

If there is a change of the channel under the following path "Device / Liquiline pH/ORP / PROFIBUS/ AIx configuration" once in a while PDM crashes. PDM has to be restarted and afterwards it works fluently. The channel which has been changed is now assumed. This behavior only appears in PDM 8.2 as it is working in PDM 6.1.

4.1.5 Temperature

Currently there are no limitations known.

Endress+Hauser PDM Profibus Device List

Package 1.12.00

Type	Device	Comm.	FW Version	Dev Rev	DD Rev	Min Required PDM Version
Analysis						
	Liquiline M / CM42 Cci	PA	13.03.xx	-	1	5.2 SP 1
	Liquiline M / CM42 Cci	PA	13.04.xx	-	1	5.2 SP 1
	Liquiline M / CM42 Cci	PA	13.05.xx	-	2	6.0 SP 2
	Liquiline M / CM42 Cci	PA	13.06.xx	-	1	6.1
	Liquiline M / CM42 Cci	PA	13.07.xx	-	1	6.1
	Liquiline M / CM42 Cond	PA	2.01.xx	1	1	6.1
	Liquiline M / CM42 DO	PA	20.03.xx	-	2	6.0 SP5
	Liquiline M / CM42 DO	PA	20.04.xx	-	1	6.1
	Liquiline M / CM42 DO	PA	20.05.xx	-	1	6.1
	Liquiline M / CM42 Oxygen	PA	2.01.xx	1	1	6.1
	Liquiline M / CM42 pH/ORP	PA	10.03.xx	-	1	5.2 SP 1
	Liquiline M / CM42 pH/ORP	PA	10.04.xx	-	1	5.2 SP 1
	Liquiline M / CM42 pH/ORP	PA	10.05.xx	-	2	6.0 SP 2
	Liquiline M / CM42 pH/ORP	PA	10.06.xx	-	1	6.1
	Liquiline M / CM42 pH/ORP	PA	10.07.xx	-	1	6.1
	Liquiline M / CM42 pHORP	PA	2.01.xx	1	1	6.1
	Liquiline / CM44x	DP	1.05.xx	3	1	6.1
	Liquistation / CSFxx	DP	1.05.xx	3	1	6.1
	Liquisys M / CCM2x3	PA	2.1x	-	1	5.2 SP 1
	Liquisys M / CCM2x3	DP	2.1x	-	1	5.2 SP 1
	Liquisys M / CLM2x3 c	DP	2.2x	-	1	5.2 SP 1
	Liquisys M / CLM2x3 c	PA	2.2x	-	1	5.2 SP 1
	Liquisys M / CLM2x3 i	DP	2.2x	-	1	5.2 SP 1
	Liquisys M / CLM2x3 i	PA	2.2x	-	1	5.2 SP 1
	Liquisys M / COM2x3	PA	2.2x	-	1	5.2 SP 1
	Liquisys M / COM2x3	DP	2.2x	-	1	5.2 SP 1
	Liquisys M / CPM 2x3	PA	2.1x	-	1	5.2 SP 1
	Liquisys M / CUM2x3	DP	2.2x	-	1	5.2 SP 1
	Liquisys M / CUM2x3	PA	2.2x	-	1	5.2 SP 1
	Mycom S / 153 Lf c	PA	1.2x	2	2	5.2 SP 1
	Mycom S / 153 Lf c	PA	1.3x	3	1	5.2 SP 1
	Mycom S / 153 Lf i	PA	1.2x	2	2	5.2 SP 1
	Mycom S / 153 Lf i	PA	1.3x	3	1	5.2 SP 1
	Mycom S / 153 pH	PA	1.2x	2	2	5.2 SP 1
	Mycom S / 153 pH	PA	1.3x	3	1	5.2 SP 1
	Mycom S / 153 pH	PA	1.61	4	1	6.0 SP4
	MyPro / CLM431 cond.	PA	2.03	-	1.1	5.2 SP 1
	MyPro / CLM431 ind.	PA	2.10	-	1.1	5.2 SP 1

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Type	Device	Comm.	FW Version	Dev Rev	DD Rev	Min Required PDM Version
	MyPro / CPM431 pH	PA	2.01	-	1.1	5.2 SP 1
	Smartec S / CLD132	PA	1.1x	-	1	5.2 SP 1
	Smartec S / CLD132	DP	1.1x	-	1	5.2 SP 1
	Smartec S / CLD132	PA	1.3x	-	1	5.2 SP 1
	Smartec S / CLD132	DP	1.3x	-	1	5.2 SP 1
Flow						
	Promag 33/35	PA	2.05.03...2.06.00	-	1.5	5.2 SP 1
	Promag 33/35	DP	2.05.03...2.06.00	-	1.5	5.2 SP 1
	Promag 50	PA	1.01.00	1	1.6	5.2 SP 1
	Promag 50	PA	2.00.01...2.02.xx	2	3	5.2 SP 1
	Promag 50	PA	2.03.xx	3	3	5.2 SP 1
	Promag 50	DP	3.01.00	4	3	5.2 SP 1
	Promag 50	DP	3.02.00	5	3	5.2 SP 1
	Promag 50	PA	3.04.00	6	-	5.2 SP 1
	Promag 50	DP	3.04.00	6	3	5.2 SP 1
	Promag 50	PA	3.05.00	7	-	5.2 SP 1
	Promag 50	PA	3.06.01	8	1	6.0 SP3
	Promag 50	DP	3.06.xx	7	1.1	6.0 SP4
	Promag 53	DP	1.01.00	1	1.6	5.2 SP 1
	Promag 53	PA	1.01.00	1	1.6	5.2 SP 1
	Promag 53	DP	2.00.01...2.02.xx	2	3	5.2 SP 1
	Promag 53	PA	2.00.01...2.02.xx	2	3	5.2 SP 1
	Promag 53	PA	2.03.xx	3	3	5.2 SP 1
	Promag 53	DP	2.03.xx	3	3	5.2 SP 1
	Promag 53	DP	3.01.00	4	3	5.2 SP 1
	Promag 53	DP	3.02.00	5	3	5.2 SP 1
	Promag 53	DP	3.04.00	6	3	5.2 SP 1
	Promag 53	PA	3.05.00	6	1	5.2 SP 1
	Promag 53	PA	3.06.01	7	1	6.0 SP3
	Promag 53	DP	3.06.xx	7	1.1	6.0 SP4
	Promag 55	PA	2.03xx	1	-	6.0 SP 2
	Promag 55	PA	3.05.00	2	-	5.2 SP 1
	Promag 55	PA	3.06.01	3	1	6.0 SP3
	Promag 55	DP	3.06.xx	1	1.1	6.0 SP4
	Promag 100	DP	1.00.xx	1	1	6.1
	Promag 100	DP	1.01.xx	2	1	6.1
	Promag 200	PA	1.00.00	1	1	6.1
	Promag 400	DP	1.00.xx	1	1	6.1
	Promass 63	PA	3.00.03...3.02.00	-	1.3	5.2 SP 1

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Type	Device	Comm.	FW Version	Dev Rev	DD Rev	Min Required PDM Version
	Promass 63	DP	3.00.03...3.02.00	-	1.3	5.2 SP 1
	Promass 80	PA	1.01.00	1	2.13	5.2 SP 1
	Promass 80	PA	2.00.01...2.02.xx	2	2.13	5.2 SP 1
	Promass 80	PA	2.03.xx	3	3	5.2 SP 1
	Promass 80	PA	3.05.00	7	1	5.2 SP 1
	Promass 80	PA	3.06.01	8	1	6.0 SP3
	Promass 83	PA	1.01.00	1	2.13	5.2 SP 1
	Promass 83	DP	1.01.00	1	2.13	5.2 SP 1
	Promass 83	DP	2.00.01...2.02.xx	2	2.13	5.2 SP 1
	Promass 83	PA	2.00.01...2.02.xx	2	2.13	5.2 SP 1
	Promass 83	PA	2.03.xx	3	3	5.2 SP 1
	Promass 83	DP	2.03.xx	3	3	5.2 SP 1
	Promass 83	DP	3.00.02	4	3	5.2 SP 1
	Promass 83	DP	3.01.00	5	3	5.2 SP 1
	Promass 83	DP	3.02.00	6	3.1	5.2 SP 1
	Promass 83	PA	3.04.00	6	1.1	5.2 SP 1
	Promass 83	DP	3.04.00	7	1.1	6.0 SP 2
	Promass 83	PA	3.05.00	7	1.1	5.2 SP 1
	Promass 83	PA	3.06.01	8	1	6.0 SP3
	Promass 83	DP	3.06.xx	8	1.1	6.0 SP5
	Promass 100	DP	1.00.xx	1	1	6.1
	Promass 100	DP	1.01.xx	2	1	6.1
	Promass 200	PA	1.00.zz	1	1	6.0 SP5
	Promass 200	PA	1.01.zz	2	1	6.0 SP5
	Prosonic Flow 90	PA	2.00.01...2.01.xx	2	3	5.2 SP 1
	Prosonic Flow 90	PA	2.03.xx	3	3.1	5.2 SP 1
	Prosonic Flow 92	PA	1.00.xx	1	1.1	5.2 SP 1
	Prosonic Flow 92	PA	1.01.xx	2	1	6.0 SP4
	Prosonic Flow 93	DP	2.00.01...2.01.xx	2	3	5.2 SP 1
	Prosonic Flow 93	PA	2.00.01...2.01.xx	2	3	5.2 SP 1
	Prosonic Flow 93	DP	2.03.xx	3	3	5.2 SP 1
	Prosonic Flow 93	PA	2.03.xx	3	3	5.2 SP 1
	Prosonic Flow 93	PA	3.05.00	5	3	5.2 SP 1
	Prosonic Flow 93	PA	3.06.01	6	2	6.0 SP5
	Prosonic Flow 93	DP	3.06.xx	6	1.1	6.0 SP5
	Prowirl 72	PA	1.00.00 1.01.00	1	1.1	5.2 SP 1
	Prowirl 72	PA	1.02.xx	2	1.1	5.2 SP 1
	Prowirl 72	PA	1.03.xx	3	-	6.0 SP 2
	Prowirl 73	PA	1.00.00 1.01.00	1	1	5.2 SP 1

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Type	Device	Comm.	FW Version	Dev Rev	DD Rev	Min Required PDM Version
	Prowirl 73	PA	1.02.xx	2	1	5.2 SP 1
	Prowirl 73	PA	1.03.xx	3	-	6.0 SP 2
	Prowirl 77	PA	1.00.0x	-	-	5.2 SP 1
	Prowirl 200	PA	1.00.xx	1	1	6.1
	Prowirl 200	PA	1.01.xx	2	1	6.1
	t-Mass 65	DP	3.02.xx		-	6.0 SP 2
	t-Mass 65	DP	3.04.xx	1	-	6.0 SP 2
	t-Mass 65	PA	3.06.01	2	1	6.0 SP3
	t-Mass 65	DP	3.06.xx	2	1.1	6.0 SP4
Level						
	Deltapilot M / FMB5x	PA	1.00.xx	1	3	6.0 SP4
	Deltapilot S / DB5x	PA	1.x	-	1.5	5.2 SP 1
	Deltapilot S / DB5x	PA	2.x	-	1.2	5.2 SP 1
	Deltapilot S / FMB70	PA	4.00.xx	-	1.3	6.0 SP5
	Deltapilot S / FMB70	PA	4.01.zz	-	1	6.1
	Gammapilot M / FMG 60	PA	1.02.xx	-	1	6.0 SP 2
	Gammapilot M / FMG 60	PA	1.03.xx	-	1.2	6.0 SP4
	Levelflex FMP5x	PA	1.00.xx	1	1	6.0 SP4
	Levelflex / FMP5x	PA	1.01.xx	2	1	6.0 SP4
	Levelflex M / FMP 4x	PA	1.02.xx	2	1.2	5.2 SP 1
	Levelflex M / FMP 4x	PA	1.04.xx	4	1	5.2 SP 1
	Liquiphant M-S / FTL5x-7x	PA	1x	-	1.2	5.2 SP 1
	Micropilot FMR5x	PA	1.00.zz	1	1	6.0 SP5
	Micropilot FMR5x	PA	1.01.zz	2	2	6.0 SP5
	Micropilot II / FMR23x	PA	2.0	-	1.34	5.2 SP 1
	Micropilot M / FMR24x-25x	PA	1.05.xx	5	1.1	6.0 SP 2
	Micropilot M / FMR250	PA	1.04.xx	4	2	5.2 SP 1
	Micropilot M / FMR24x-25x	PA	1.05.xx	5	1.1	6.0 SP 2
	Micropilot M / FMR2xx	PA	1.02.xx	2	2	5.2 SP 1
	Micropilot M / FMR2xx	PA	1.04.xx	4	2	5.2 SP 1
	Micropilot M / FMR250	PA	1.04.xx	4	2	5.2 SP 1
	Micropilot M / FMR2xx	PA	1.01.xx	1	2	5.2 SP 1
	Micropilot M / FMR2xx	PA	1.02.xx	2	2	5.2 SP 1
	Micropilot M / FMR2xx	PA	1.04.xx	4	2	5.2 SP 1
	MultiCap (FEC 14)	PA	1.0	1	1	5.2 SP 1
	Prosonic FMU86x	DP	1.0...1.3	-	1	5.2 SP 1
	Prosonic M / FMU4x	PA	1.02.xx	2	2	5.2 SP 1
	Prosonic M / FMU4x	PA	1.04.xx	4	1	5.2 SP 1
	Prosonic S / FMU90	DP	2.00.xx	2	1	6.0 SP 2

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Type	Device	Comm.	FW Version	Dev Rev	DD Rev	Min Required PDM Version
	Prosonic S / FMU95	DP	1.00.xx	1	1	6.0 SP 2
	Prosonis S / FMU90	DP	2.01.xx	3	1	6.0 SP 2
	Prosonis S / FMU90	DP	2.01.xx	3	2	6.0 SP 2
	Prosonis S / FMU95	DP	1.01.xx	2	1	6.0 SP 2
	Prosonis S / FMU95	DP	1.01.xx	2	2	6.0 SP 2
Pressure						
	Cerabar M / PMx4x	PA	1.0...1.2	-	1.4	5.2 SP 1
	Cerabar M / PMx5x	PA	1.00.xx	1	3	6.0 SP4
	Cerabar S / PMx 7x	PA	3.00.xx	-	1.1	5.2 SP 1
	Cerabar S / PMx 7x	PA	4.00.xx	-	1.2	6.0 SP5
	Cerabar S / PMx 7x	PA	4.01.zz	-	1	6.1
	Cerabar S / PMx x3x	PA	1.0	-	1.84	5.2 SP 1
	Cerabar S / PMx x3x	PA	1.1	-	1.84	5.2 SP 1
	Cerabar S / PMx x3x	PA	2.x	-	1.4	5.2 SP 1
	Deltabar M / PMD55	PA	1.00.xx	1	3	6.0 SP4
	Deltabar S / xMD x3x	PA	2.x	-	1.4	5.2 SP 1
	Deltabar S / xMD 7x	PA	3.00.xx	-	1.1	6.0 SP5
	Deltabar S / xMD 7x	PA	4.00.xx	-	1.2	5.2
	Deltabar S / xMD 7x	PA	4.01.zz	-	1	6.1
	Deltabar S / xMD x3x	PA	1.0	-	1.84	5.2 SP 1
	Deltabar S / xMD x3x	PA	1.1	-	1.84	5.2 SP 1
Temperature						
	iTEMP TMT162	PA	1.00.xx	1	3	5.2
	iTEMP TMT162	PA	1.01.xx	2	1	5.2
	iTEMP TMT162	PA	1.01.xx	2	2	6.1
	iTEMP TMT184	PA	1.0 1.1	-	1.8	5.2 SP 1
	iTEMP TMT84	PA	1.00.xx	1	3	5.2
	iTEMP TMT84	PA	1.01.xx	2	1	5.2
	iTEMP TMT84	PA	1.01.xx	2	2	6.1
	smartgrad TMD834	PA	1.0	-	1.3	5.2 SP 1

* New Devices

* Driver Modification