

# AP Connect Supported Instruments and Instrument Requirements

The following document lists all supported instruments and their required software versions that can be connected to AP Connect Version 2.2 and higher.

## 1 Anton Paar Instruments and Modular Measuring Systems

### NOTICE:

- If you are using AP Connect Pharma Edition, you have to use the latest version of the software for the corresponding instrument.
- To use all features of the current AP Connect version, also the instrument has to use the latest instrument software version.

Type	Minimum software version together with APC Standard Edition*	Minimum software version together with APC Pharma Edition	Restrictions**
ABA 300/500	1.3.2	1.3.2	
Abbemat Performance Plus (350, 550) Heavy Duty line (450, 650)	5.30	5.30	
Alcolyzer Beer/Wine Analyzing System with DMA M: <ul style="list-style-type: none"> <li>• DMA M</li> <li>• Alcolyzer Beer/Wine/Spirits ME and Alcolyzer ME</li> <li>• Xsample 320/520</li> </ul> optional: <ul style="list-style-type: none"> <li>• pH ME</li> <li>• Option Color 430nm</li> <li>• HazeQC ME</li> </ul>	2.95. Build 323	2.98 Build 425	
Alcolyzer Analyzing System for Spirits and Liqueurs with DMA M: <ul style="list-style-type: none"> <li>• DMA M</li> <li>• MCP 100/150</li> <li>• Alcolyzer ME / Alcolyzer Spirits ME</li> <li>• pH ME</li> <li>• Xsample 320/520</li> </ul>	2.95. Build 323	2.98 Build 425	
Alcolyzer M	2.97	2.98 Build 425	No Alcolyzer adjustments
Beer/Wine/Spirits Analyzing System with DMA 4101/4501/5001: <ul style="list-style-type: none"> <li>• DMA 4101/4501/5001</li> <li>• Alcolyzer 3001 Beer/Wine/Spirits and Alcolyzer 3001</li> <li>• Xsample 320/520</li> </ul> optional: <ul style="list-style-type: none"> <li>• pH 3101</li> <li>• Option Color 430nm</li> <li>• Haze 3001</li> </ul>	3.0.0	3.0.0	No module adjustments (Alcolyzer3001/CarboQC/pH3201/Haze3001/Color)
Diana 300/700	1.8.2/1.8.0	1.8.2/1.8.0	
DMA 501/1001 (supported: 186376 and 180173 not supported: 229962 and 229961 models with type approval)	4.1.0	4.1.0	
DMA 4100/4500/5000 M	2.95. Build 323	2.98 Build 425	All adjustments are transferred except Manual Adjustment Data Input [Density] and Filling Warning Adjustment.
DMA 4200 M DMA 4500 M Chemicals	2.98	2.98 Build 425	

# AP Connect Supported Instruments and Instrument Requirements



DMA 4101/4501/5001	2.0.0	3.0.0	
DMA 4501 Diet	4.0.0	4.0.0	
DSA 5000 M	2.97	2.98 Build 425	All adjustments which are possible with administrator rights are transferred
Lovis 2000 M	2.98_425	2.98_425	For instrument-software-version < 2.98_529 adjustments are not transferred.
MCP series (except MCP 100/150)	5.30	5.30	All adjustments are transferred (except Set Zero)
Modulyzer with DMA M <ul style="list-style-type: none"> <li>• DMA M</li> <li>• MCP 100/150</li> <li>• Abbemat Series</li> <li>• Xsample 530</li> </ul> optional: <ul style="list-style-type: none"> <li>• SRU for Xsample 530</li> <li>• Lovis ME</li> <li>• HazeQC ME</li> </ul>	2.95 Build 323	2.98 Build 425	
PBA-B and PBA-W with DMA M: <ul style="list-style-type: none"> <li>• DMA M</li> <li>• Alcoalyzer Beer/Wine ME and Alcoalyzer ME</li> <li>• CarboQC ME</li> </ul> optional: <ul style="list-style-type: none"> <li>• pH ME</li> <li>• Option Color 430nm</li> <li>• HazeQC ME</li> <li>• Option O<sub>2</sub> (CarboQC)</li> </ul>	2.95. Build 323	2.98 Build 425	
PBA-S with DMA M <ul style="list-style-type: none"> <li>• DMA M</li> <li>• CarboQC ME</li> </ul> optional: <ul style="list-style-type: none"> <li>• pH ME</li> <li>• Option O<sub>2</sub> (CarboQC)</li> <li>• DietQC ME / DietQC ME with option for uncolored drinks</li> </ul>	2.95. Build 323	2.98 Build 425	
PBA-SI with SDA M: <ul style="list-style-type: none"> <li>• SDA M</li> <li>• CarboQC ME</li> </ul> optional: <ul style="list-style-type: none"> <li>• pH ME</li> <li>• Option O<sub>2</sub> (CarboQC)</li> <li>• DietQC ME/ DietQC ME with option for uncolored drinksUV</li> </ul>	2.97	2.98 Build 425	All adjustments which are possible with administrator rights are transferred
PBA 5001 Beer/Wine with DMA 4101/4501/5001: <ul style="list-style-type: none"> <li>• DMA 4101/4501/5001</li> <li>• Alcoalyzer 3001 Beer/Wine</li> <li>• CarboQC ME</li> </ul> optional: <ul style="list-style-type: none"> <li>• pH 3201</li> <li>• Option Color 430nm</li> <li>• Haze 3001</li> <li>• Option O<sub>2</sub> (CarboQC)</li> </ul>	3.0.0	3.0.0	No module adjustments (Alcoalyzer3001/CarboQC/ pH3201/Haze3001/Color)

# AP Connect Supported Instruments and Instrument Requirements

PBA 5001 Softdrink with DMA 4101/4501/5001 • DMA 4101/4501/5001 • CarboQC ME optional: • pH 3201 • Option O <sub>2</sub> (CarboQC)	3.0.0	3.0.0	No module adjustments (Alcolyzer3001/CarboQC/ pH3201/Haze3001/Color)
PMA 300/500	1.3.1/1.2.2	1.3.1/1.2.2	
Soft Drink Analyzer M (SDA M)	2.97	2.98 Build 425	All adjustments which are possible with administrator rights are transferred
SVM X001 series	SVM 2001/3001: 2.96 SVM 4001/ 3001 Cold Properties: 2.97 build 39	2.98 Build 425	No calibrations or adjustments are transferred, except the atmospheric pressure sensor adjustment (DCB)
Ultrapyc 3000/5000 series	1.002.020	1.002.020	
ViscoQC 300	1.60	1.60	A maximum of 100 measuring points can be transferred to AP Connect. For mode "ASTM D2983/D8210 (LTV)" and „Temperature Ramp (TR)" 500 measuring points.

\* Not all functions of AP Connect are supported, if the instrument does not use the latest software version

\*\* Further restrictions might be documented in the AP Connect Release Notes

## 2 Sample Changer and Additional Modules

Type	Minimum software version together with APC Standard Edition*	Minimum software version together with APC Pharma Edition	Restrictions**
Alcolyzer Beer ME	DMA 2.95 Build 323	2.98	
CarboQC ME	DMA 2.95 Build 323	2.98	
HazeQC ME	DMA 2.95 Build 323	2.98	
pH ME	DMA 2.95 Build 323	2.98	
DietQC ME	DMA 2.95 Build 323	2.98	
Lovis ME	DMA 2.95 Build 323	2.98	
Alcolyzer 3001 Beer/Wine/Sake/Spirits	Master 3.0.0	Master 3.0.0	No module adjustments
Haze 3001	Master 3.0.0	Master 3.0.0	No module adjustments
pH 3101/3201	Master 3.0.0	Master 3.0.0	No module adjustments
Xsample 200, 320, 330, 340, 530, 520, 610, 630			
PMU, MPT, SRU with Xsample 530			

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\*\* Further restrictions might be documented in the AP Connect Release Notes

## 3 Instruments from Other Vendors (Instrument Adapter for AP Connect)

With an additional license (see D96IE002 Product Description List), the Instrument Adapter can be used together with AP Connect. Each additional instrument from other vendors needs an extra AP Connect license (Standard or Pharma).

Tested instruments with the instrument adapter with configurations stated in the I70IB001 – Software Manual “Instrument Adapter for AP Connect”:

Adaptertype	Tested instruments
PharmSpec	<p>PharmSpec 3 (Beckman Coulter):</p> <ul style="list-style-type: none"> <li>- supports CSV-file based communication</li> <li>- transmission of results and meta data to AP Connect</li> <li>- the supported report configuration can be found in I70IB001 - Software Manual “Instrument Adapter for AP Connect”</li> </ul>
Metrohm pH-Meter	<p>pH Meter 780/781 (Metrohm):</p> <ul style="list-style-type: none"> <li>- supports bidirectional communication via RS232</li> <li>- transmission of results and meta data to AP Connect</li> <li>- the required instrument settings can be found in I70IB001 - Software Manual “Instrument Adapter for AP Connect”</li> </ul>
Sartorius	<p>CUBIS II balance (Sartorius) (via balance’s internal web services)</p> <ul style="list-style-type: none"> <li>- supports balance’s internal web services communication via Ethernet</li> <li>- transmission of results and meta data to AP Connect</li> <li>- the required hardware, software and instrument settings can be found in I70IB001 - Software Manual “Instrument Adapter for AP Connect”</li> </ul>
Sartorius SBI	<p>Entris II and Secura II balance (Sartorius) (via SBI = Sartorius Balance Interface)</p> <ul style="list-style-type: none"> <li>- communication with balance via SBI interface via serial interface / RS 232</li> <li>- transmission of results and meta data to AP Connect</li> <li>- the required hardware and instrument settings can be found in I70IB001 - Software Manual “Instrument Adapter for AP Connect”</li> </ul>
Generic CSV Adapter	<p>The Generic CSV Adapter:</p> <ul style="list-style-type: none"> <li>- supports a simple structured table</li> <li>- file based communication (*.csv and *.txt) with plain text content</li> <li>- transmission of results and meta data to AP Connect</li> </ul> <p>Was tested with the following systems (required report configuration can be found in I70IB001 - Software Manual “Instrument Adapter for AP Connect”):</p> <ol style="list-style-type: none"> <li>1. Syngistix (PerkinElmer)</li> <li>2. OsmoTECH Pro (Advanced Instruments)</li> <li>3. Morphologi 3 and 4 (Malvern Panalytical)</li> <li>4. Mastersizer 2000 (Malvern Panalytical)</li> <li>5. ZwickiLine - TestXpert II (ZwickRoell)</li> <li>6. Pixel Proof (Gradient)</li> <li>7. REA VeriCube (REA VERIFIER)</li> </ol> <p>Further reports are supported if they have the same structure as the tested reports.</p>
Generic Report	<p>The Generic Report Adapter:</p> <ul style="list-style-type: none"> <li>- supports complex reports structure with different sections (key value pairs, tables)</li> <li>- file based communication with plain text content: *.txt, *.csv (no pdf)</li> <li>- transmission of results and meta data to AP Connect</li> </ul> <p>Was tested with the following systems (required report configuration can be found in I70IB001 - Software Manual “Instrument Adapter for AP Connect”):</p> <ol style="list-style-type: none"> <li>1. Chromeleon (Thermo Fischer): standard report generator</li> <li>2. UV WinLab (Perkin Elmer): UV-Vis Lambda 35</li> <li>3. TOC-Control V Software (Shimadzu)</li> </ol> <p>Further reports are supported if they have the same structure as the tested reports.</p>

If the required instrument or software is not listed, please send the report file (csv or txt) or interface description to [support-apc@anton-paar.com](mailto:support-apc@anton-paar.com).