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Version:	7.0	Autor:	MaG	Datum	21.08.2020

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1. Supported Instruments

Pumps

- Smartline Pump 100
- BlueShadow Pumps 10P/20P
- AZURA Pumps P 2.1S/P 4.1S
- AZURA Pumps P 6.1L
- AZURA Pump P 2.1L
- BlueShadow Pumps 40P
- Smartline Pump 1050
- Any pump with analog flow rate control (voltage or frequency) via SCPA Multcom Interface
- more pumps available on demand

Detectors (control and digital data acquisition)

- AZURA UV-Detector UVD 2.1S
- AZURA UV-Detector UVD 2.1L
- AZURA UV-Detector UV MWD 2.1L (4 channels, up to 50 Hz)
- AZURA DAD 6.1L, AZURA DAD 2.1L (limited 3D functionality, up to 10 Hz)
- AZURA Conductivity Detector CM 2.1S
- AZURA RID 2.1L (up to 2 Hz)
RID 2.1L or CM 2.1S cannot be controlled together.
- Shimadzu RF20A
RF20A or IFU 2.1/IFU2.1LAN cannot be controlled together
- SEDEX LC
- Smartline DAD 2600
more detectors available as controllable device only (+ data acquisition via SCPA ADC or KNAUER IFU)
- more detectors available on demand

Autosamplers

- KNAUER 3950
- KNAUER AS 6.1L
- Autosampler KNAUER Optimas
- more autosamplers (e.g. Spark Marathon, Midas) controllable via SCPA Multcom Interface

Valves

- any KNAUER Valve Drives (AZURA, smartline, Wellchrom)
- more Valves available on demand
- Manual injection valves **cannot** be used to start a pump located in an ASM 2.1L

Fraction Collectors

- ISCO Foxy R1
- ISCO Foxy R2
- LABOCOL Vario-4000, Vario-4000 Plus
- more fraction collectors (e.g. ISCO Foxy Jr.) controllable via SCPA Multcom Interface
- more fraction collectors available on demand

Column ovens

- Column ovens controllable via SCPA Multcom Interface: JetStream, Spark Mistral
- more ovens available on demand
- CT2.1 (without leakage alarm)
- Memmert Oven UN55
- SCPA Eluentheater

Interfaces

- KNAUER Interface Box IFU 2.1 (Analog Inputs only)
- KNAUER Interface Box IFU 2.1 LAN (Analog Inputs only)

Flowmeter

- Bronkhorst Mini Cori-Flow M12, M13, M14

Assistant

- ASM 2.1L (*ASM is not supported as device; the included modules can be controlled as separate devices via IP port; only one valve as fraction collector*)
- ASM 2.2L (*ASM is not supported as device; the included modules can be controlled as separate devices via IP port; only one valve as fraction collector*)

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2. Installation Requirements

Operating Systems	Windows XP Windows Vista Windows 7 Windows 8 Windows 10 Only English and German as operating system languages are tested and supported.
CPU/Memory	Pentium III or higher with at least 1 GHz at least 512 MB RAM (Windows XP) and 2 GB (Windows Vista and higher)
Network	Second network card is required for network integration
Graphics	Screen with minimal resolution 1024 x 768
Connectors and Slots	USB for license dongle COM, USB or LAN according to connected instruments

Language Selection

PurityChrom is available in English and German. Some Error messages and notifications may be displayed in English regardless of the language selection.

Installation and use under Windows:

Installation of PurityChrom in directories under C:\Windows\Program Files (or C:\Windows\Programme) is NOT recommended as write access may be limited by the windows user administration in these directories. Please use installation paths like C:\PurityChrom or D:\PurityChrom.

Administrator rights are necessary during installation of PurityChrom and the Windows User Account Control settings should be set to "Never notify" in order to deactivate the User Account Control. It may be re-activated after the installation.

The user needs write and read permission for registry and folders C:\Windows, C:\Puritychrom.

PurityChrom needs to be excluded from Microsoft Security Essentials. Furthermore, the Windows Defender and antivirus software should be deactivated.

If Windows 8 or 10 is used it is recommended to start PurityChrom as an administrator. Go to C:\PurityChrom and right-click the PurityChrom.exe to open the properties. Go to compatibility and check "Run this program in compatibility mode for" and choose "Windows Vista (Service Pack 2). After this, check "Run this program as an administrator". Click "Apply" and "Ok", then close the window.

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Energy Saving Features

Automatic switching to energy saving mode or hibernating has to be disabled i.e. settings for “Turn Off Hardware”, “Turn off Computer” or “System Standby” must be set to “Never” in the control panels energy options.

3. Release History

The latest Version 5.9.115. The following changes and improvements have been added or bugs have been fixed from version 5.9.109:

Changes in version 5.9.115:

- Improvement of internal error handling
- Improvement of keylock function
- Improvement of visualization display when adjusting window size
- Improvement: Protocol entry for Lamp Off/On DAD
- Improvement: sending temperature with one decimal
- Improvement of eventbox inputs for major and minor pump
- Improvement: Error message if KNAUER valves answer with “E”
- Bugfix: “Escape” in progression display (circumvents communication freeze if too much is clicked at once)
- Bugfix: Dateformat in Audittrail
- Bugfix: Removal of empty fractions in fractionlist
- Bugfix: minimal and maximal timeshift only apply if ini value is <>-1
- Bugfix: max flow restriction for major pump applies for minor pump in time table editor