SYSTEC Degasser WatchDog

DataApex Clarity Control

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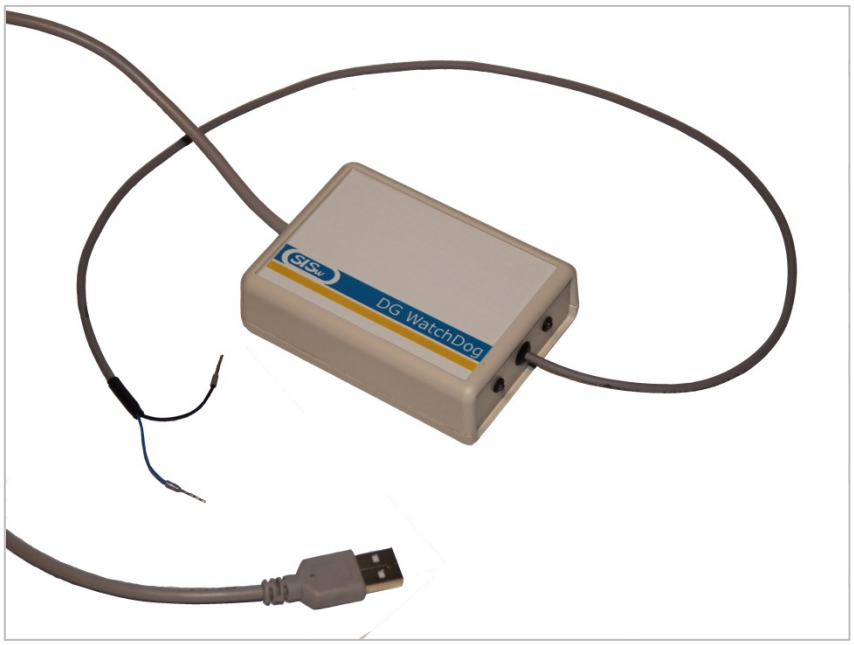
SISW DEGASSER WATCHDOG CONTROL MODULE

This manual describes the setting of Science Instruments and Software **Systec Degasser WatchDog** (*DG WatchDog*, USB degasser interface). The control module continuous monitoring of vacuum level in connected membrane degasser.

Supported are all degassers produced by SYSTEC® (part of IDEX Health & Science LLC) equipped by validation output, including OEM versions. The DG WatchDog device is powered and communicates via computer USB interface.



Direct control means that the vacuum measuring activity is fully controlled from Clarity environment. Measured vacuum data may be permanently stored in the measured chromatograms.

The control is performed via the UNI Ruby control module and SISW DG WatchDog profile.

REQUIREMENTS

- Clarity installation package with appropriate control license (P/N A24 – LC Control)
- Free USB port in the PC
- DG WatchDog Installation CD with USB drivers

INSTALLATION PROCEDURE

Following chapter describes installation of DG WatchDog USB drivers followed by Clarity system configuration.

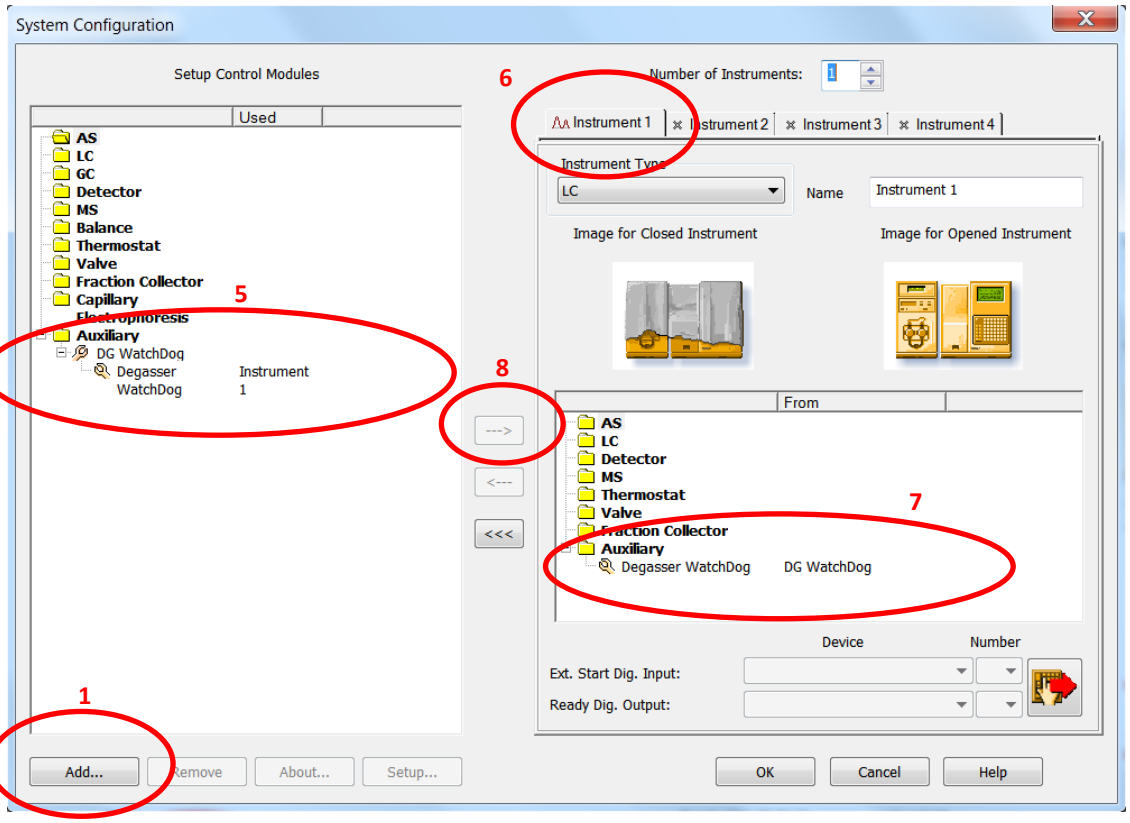
INSTALLING DG WATCHDOG USB DRIVERS

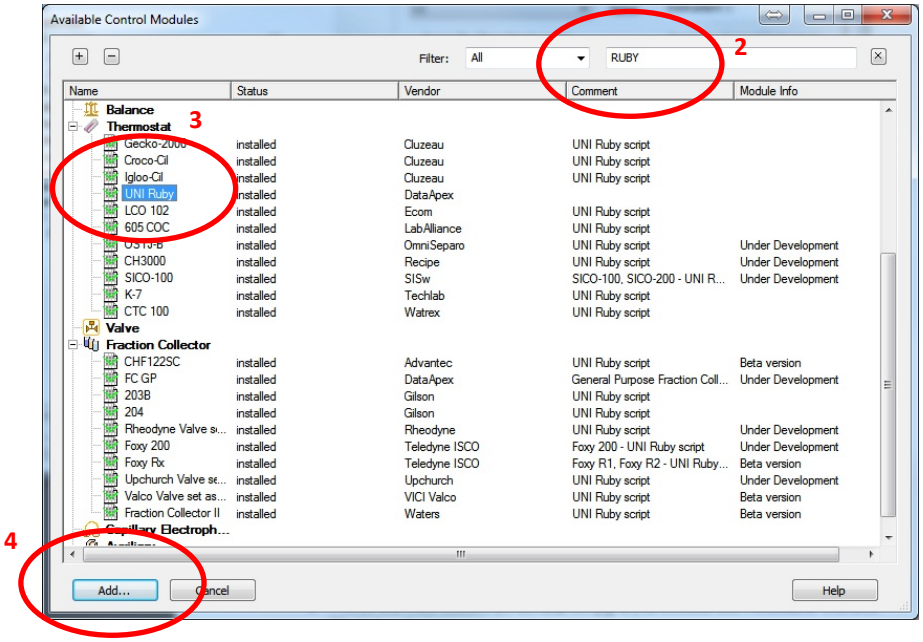
Installation of USB drivers should be performed prior to connection of device to the computer. To install the drivers, insert the software CD into drive on your computer. The installation process will normally start automatically. If the auto play function is disabled, run setup.exe from the root folder of CD. Then follow the instruction of the software installer.

Now connect the DG WatchDog to a spare USB port on computer. The installation of USB drivers will be finalized within a minute.

CLARITY CONFIGURATION

- Start the Clarity by clicking on its icon on the desktop.
- Invoke the *System Configuration* dialog from Clarity window using **System|Configuration command**.
- Click the *Add…* button (**1**) on System Configuration window to invoke the *Available Control Modules dialog.*

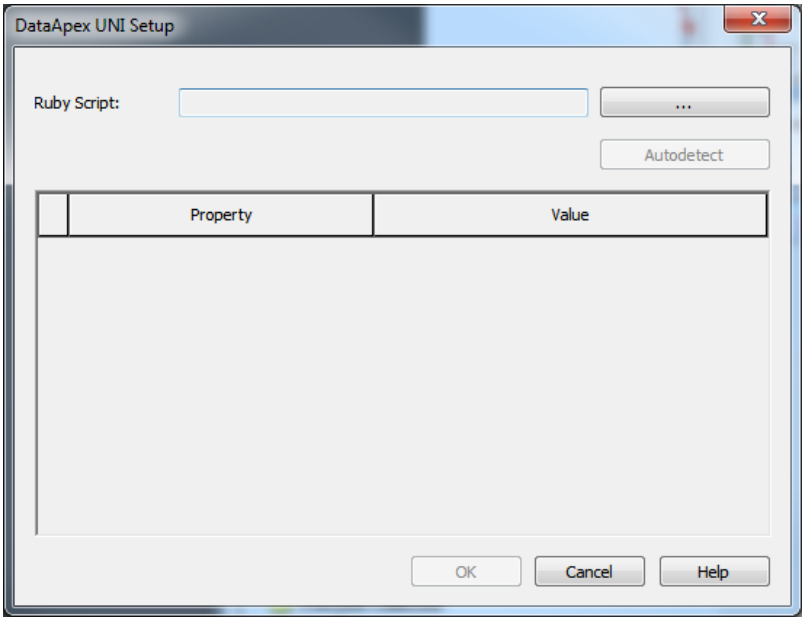




- Specify the search filter “RUBY” (**2**)..

- Select the correct item (**3**) and click the *Add* button (**4**).

- The DataApex UNI Setup dialog will appear.



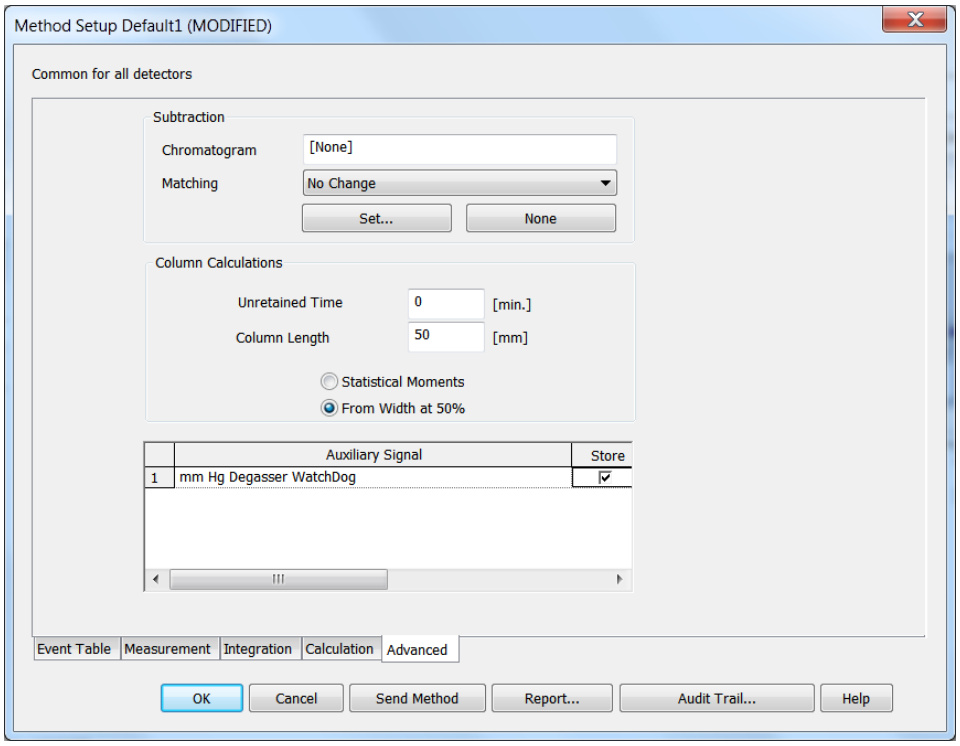
- Set desired Ruby Script for USB pH Monitor. The correct SISwSystecDegasserInterface.RB script for DG WatchDog can be found in the *Utils\Uni_Drivers\SISW* folder (accessible through the ... button) of the Clarity root directory.
- Select the correct DG WatchDog from *Port* drop down box.
- You might want to change *Device Name* for the DG WatchDog device.
- The DG WatchDog item (**5**) will appear in the *Auxiliary* section of *Setup Control Modules* list.
- Select desired instrument tab (**6**).
- Drag the *DG WatchDog* item from the *Setup Control Modules* list on the left side to the list of desired modules on the right side (**7**). You can use the **--->** button (**8**) alternatively.

USING THE CONTROL MODULE

No additional tab is created in the *Method Setup* dialog when DG WatchDog is installed. New item is available in the *Auxiliary Signal* list on the *Advanced* tab of Method setup dialog. The DG WatchDog section is created in the *Device Monitor* window.

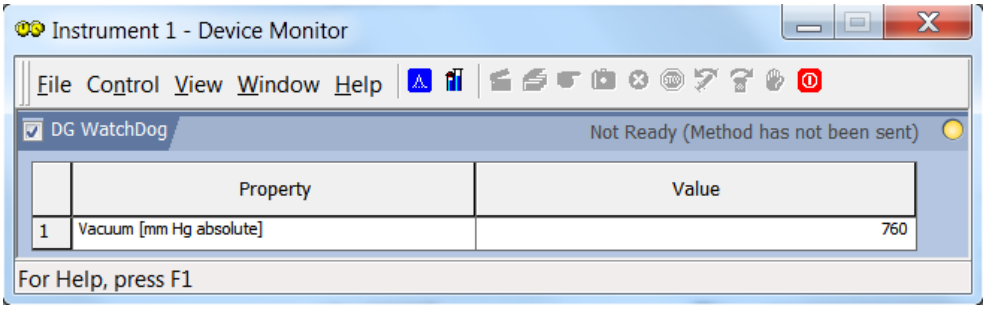
METHOD SETUP – ADVANCED

New auxiliary signal (mm Hg) is now available on the *Advanced* tab of *Method Setup* dialog. Checking the *Store* checkbox enables displaying vacuum level auxiliary signal in the *Data Acquisition* window. Vaccum (mm Hg) data will be stored in the measured chromatograms.



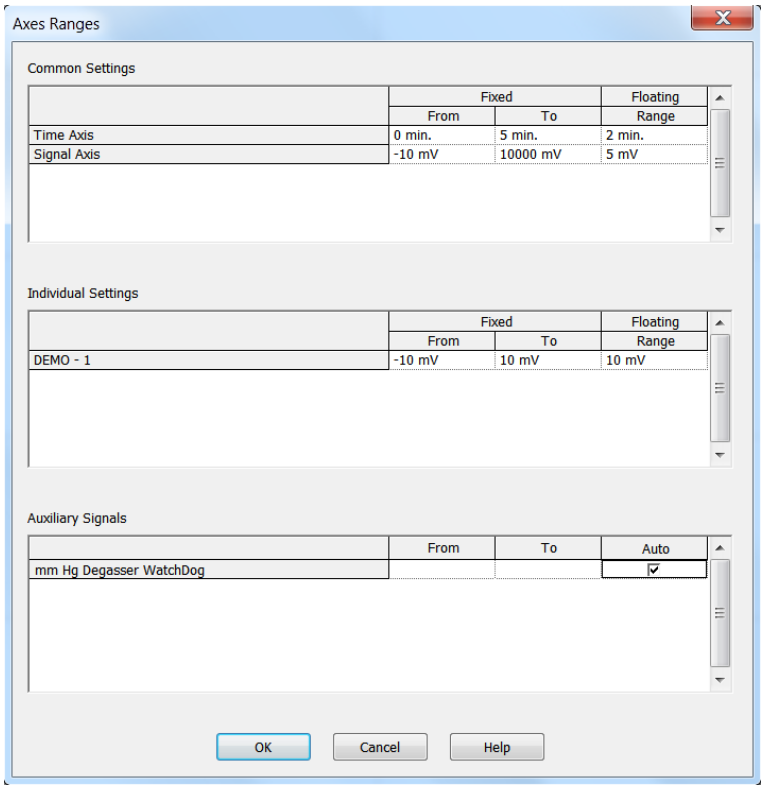
DEVICE MONITOR

Monitor|Device Monitor command from the Instruments window invokes the *Device Monitor* window with actual DG WatchDog status. The *Vacuum [mm Hg absolute]* value is continuously the updated. The module will become ready only if vacuum level is between 10 to 100 mm Hg. The vacuum level for normal operation is approximately 50 mm Hg.

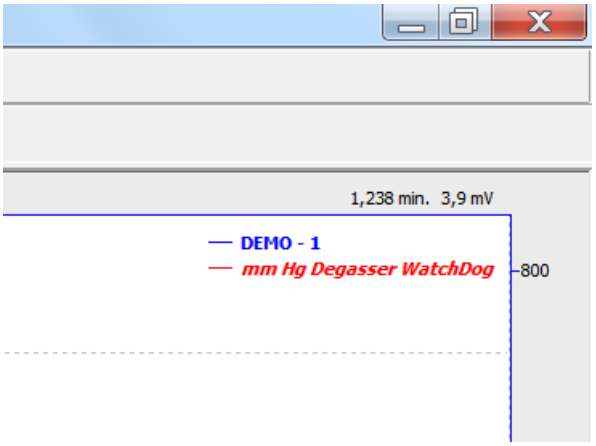


DATA ACQUSITION WINDOW

When enabled in the *Method Setup* dialog – *Advanced* tab, auxiliary signal *mm Hg* is displayed in the *Data Acquisition* window. Axis range for *mm Hg* signal can be set in the Axes Range dialog. Axes Range dialog will be invoked by View|Set Axes Ranges… in the Data Acquisition window. When *Auto* checkbox is checked, the vacuum value signal axis range starts at a minimal value and enlarges according to the signal change. When unchecked, the axis range is fixed to the entered values.

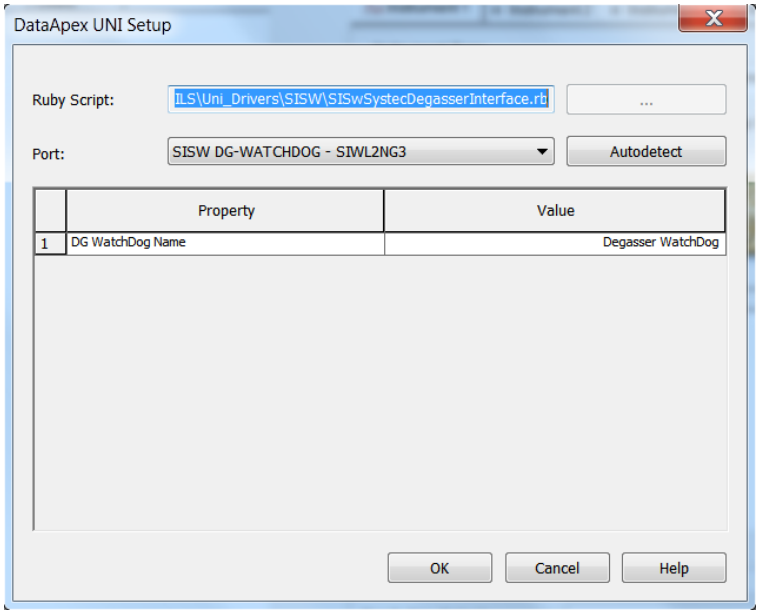


mm Hg (vacuum level) signal provided by DG WatchDog is then displayed in the *Data Acquisition* window of the appropriate instrument.



DATAAPEX UNI SETUP

DataApex UNI Setup dialog contains several items which can be modified.



RUBY SCRIPT

Ruby Scrip shows actually selected UNI Ruby script for the DG WatchDog device.

PORT

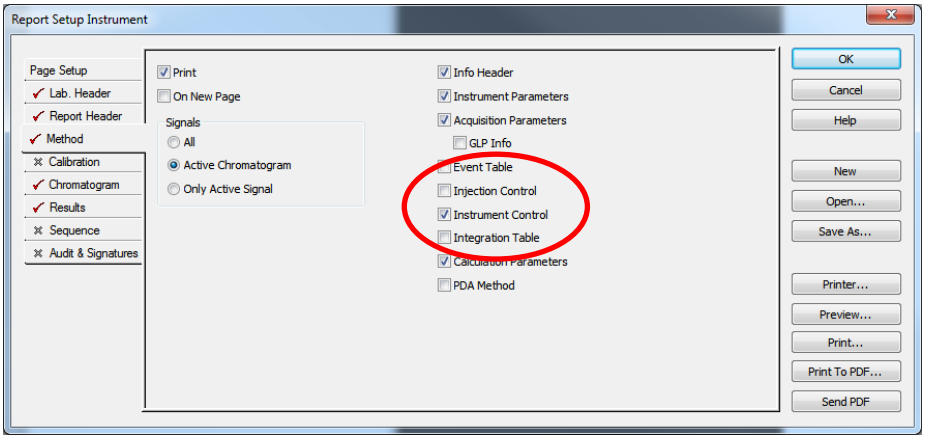
Port serves for selecting the DG WatchDog.

INSTRUMENT NAME (DG WATCHDOG NAME)

DG WatchDog Name allows customize the name of the instrument. This name (in the *Value* column) will be used throughout the Clarity station.

REPORT SETUP

The reporting of the DG WatchDog in the Method section of report can be enabled by checking the *Instrument Control* checkbox on the *Method* tab of the *Report Setup* dialog.



DG WatchDog settings are then reported.