The optical unit and the associated electronics are packaged in a compact, thermally insulated housing. The device is connected to the computer via high-speed USB 2.0 port. The user-friendly graphical interface displays all interferometer information and is compatible with Windows. Additionally, all necessary controls and actions can be set, read and performed via external software access. An easy-to-use API can be accessed to completely integrate wavelength meter functionality into your own applications, with development environments such as C/C#/C++, Delphi, VB/VBA, LabVIEW, CVI, HP-Vee and other software.

Basic Features of the Standard Instruments:

■ Pressure consideration for enhanced measurement stability

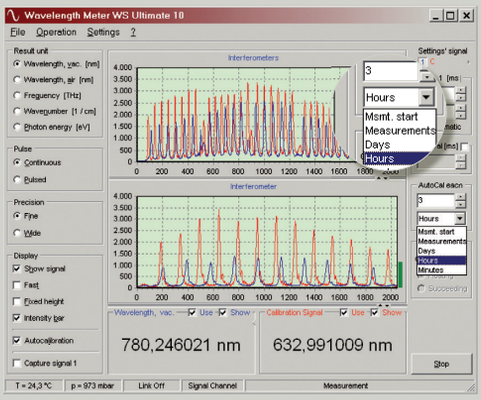
Measurements are temperature and (new) pressure compensated using ultra sensitive temperature and pressure sensors. That way it is possible to use the devices in aviatic measurement environments, high altitudes, LIDAR, ...

■ Thermal insulation for enhanced measurement stability

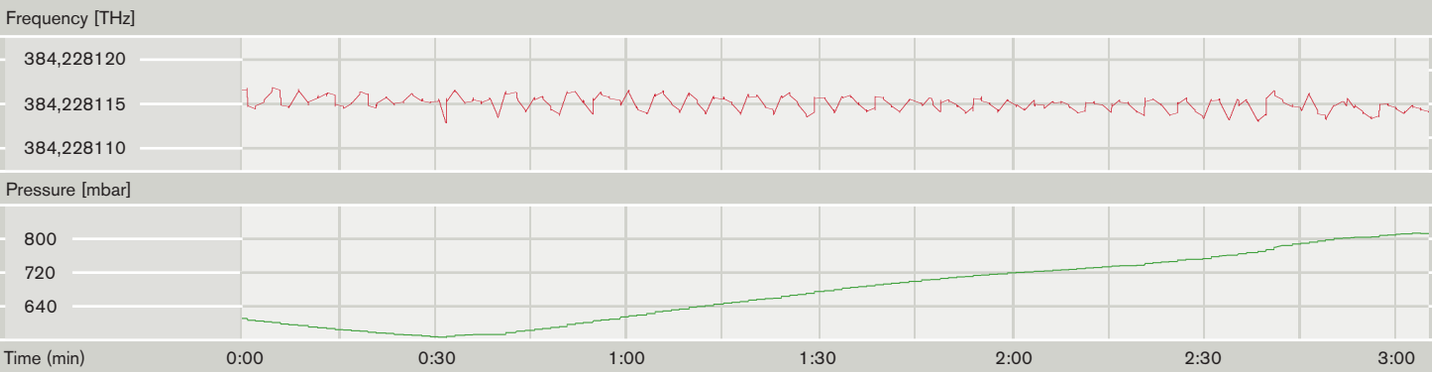
The following graph shows a measurement of a WS6-600 in a climate chamber. The thermally insulated casing contributes to the high stability of wavelength measurements. The internal temperature sensor compensates for thermal drifts.

■ Measurement of Wavelength & Frequency

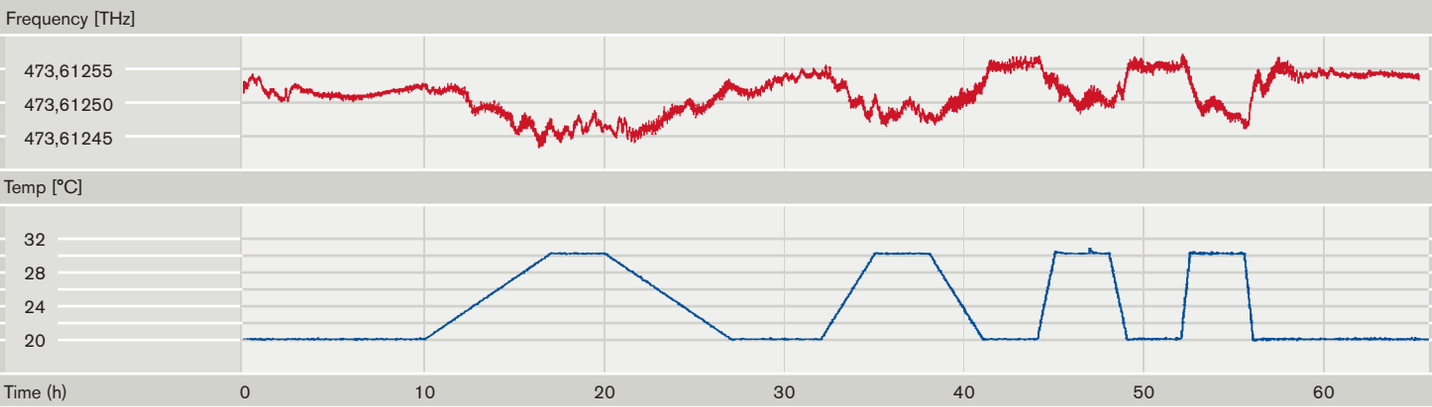
The measurement result is displayed on the computer via the supplied software and graphical user interface. Installation and set-up are fast and easy. The displayed results may be switched between wavelength, frequency, wavenumber or energy to suit your requirements. The interference pattern displayed provides information regarding the spectral profile of pulsed or continuous wave laser sources.



Stability of pressure (Ultimate 2, autocalibration with SLR 780)



Stability of temperature (WS-7, no calibration during whole 3 days measurement)



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