



WS6 High-Precision Wavelength Meter

WS6-600: absolute accuracy 600 MHz, resolution: 100 MHz

NEW: WS6-200: absolute accuracy 200 MHz, resolution 50 MHz

High performance and compact design

The HighFinesse/Angstrom WS6 high-precision wavelength meter is a highly sensitive wavelength meter with integrated calibration for pulsed and continuous laser sources.

The WS6-600 combines both compact design and high resolution, achieved by a single set of multiple interferometers arranged in a unique geometric configuration. The WS6-200 uses 2 sets of multiple interferometers which triples the accuracy.

The WS6's design allows the integration of additional options, even years after purchase.

The WS6 is connected to the PC via a USB interface. The wavelength meter is ready for use as soon as the software delivered with the device is installed. There is no warm-up time required under constant ambient conditions.

Enter a new world of accuracy!



Ångstrom

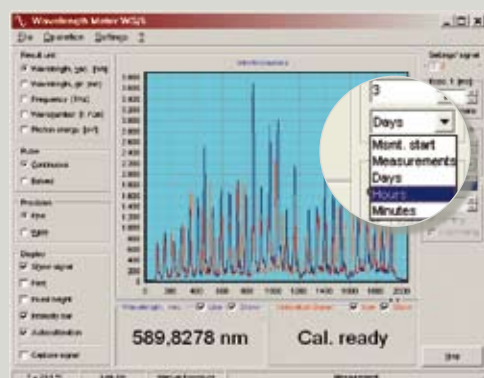


HighFinesse
Laser and Electronic Systems

Technical Data		WS6-600	WS6-200
Measurement range (nm)	Standard (350 – 1120)	●	●
	UV (248 – 1100)	●	●
	IR (800 – 1750)	●	●
	UV-II (192 – 800)	●	●
	IR-II (1000 – 2250)	●	●
Absolute accuracy ⁷⁾	192 – 370 nm (pm) ¹⁾	0.6	0.4
	370 – 1100 nm (MHz)	600	200
	1100 – 2250 nm (MHz)	400	150
Quick coupling accuracy (with MM fiber)		600	600
Resolution (MHz)		100	50
Linewidth option: ⁴⁾	Accuracy (MHz) ³⁾	5 % (>500) ⁴⁾	
	Max. bandwidth (GHz)	60	
Measurement speed (Hz) (depending on PC hardware and settings)	Wavelength	300	150
	Interferometer picture	80	40
	Linewidth option	20	10
Required input power (μJ)	Standard	0.02 – 5	0.06 – 15
	UV	0.1 – 20	0.03 – 60
	IR	20 – 200	3 – 200
	UV-II	1 – 80	50 – 1000
	IR-II	50 – 1000	250 – 3000
Fizeau interferometers ²⁾	FSR (GHz)	15 (100)	
Grating Option ³⁾	Spectral resolution (nm)	0.2	–
Coupling fiber diameter (μm)		400 μm	400 μm or SM fiberset
Calibration		Built-in calibration	
Calibration period		> 1 month (will be detected and done automatically)	
Warm-up time		No warm-up time under constant ambient conditions (except IR-II: > 30 minutes warm-up time required) Otherw. until thermal and air pressure equilibrium is reached.	
Dimensions L x W x H (mm)		325 x 180 x 77	360 x 120 x 120
Weight (kg)		2.8	2.8
Interface		High-speed USB 2.0 connection	
Power supply		Power consumption < 2.3 W, supply directly via USB cable IR-II: external power supply included	

- 1) With MM fiber
2) Values for wide-/fine-mode
3) Only for standard range

- 4) Max. accuracy in () for narrow lasers
7) according 3σ criteria



NEW: Internal calibration

Automatic calibration for WS-6-600 and WS-6-200 with built-in wavelength standard, settable measurement counts or time period between calibrations.

Typical WS6 applications

The WS6 is well suited for scientific applications and spectroscopic applications with high resolution. Low-light intensity and fast readout make it ideal for monitoring diode lasers, frequency-doubled laser sources or optical parametric oscillators.

Available WS6 options

- Diffraction grating (D) ■ Linewidth (L) ■ Multi-channel switcher (MC) ■ PID-controller (PID)
- TTL-trigger (TTL) ■ Double pulse (DP)



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