Components

Optical Attenuator

- Smooth power attenuation
- Simple adjustment and operation
- USB motorization option

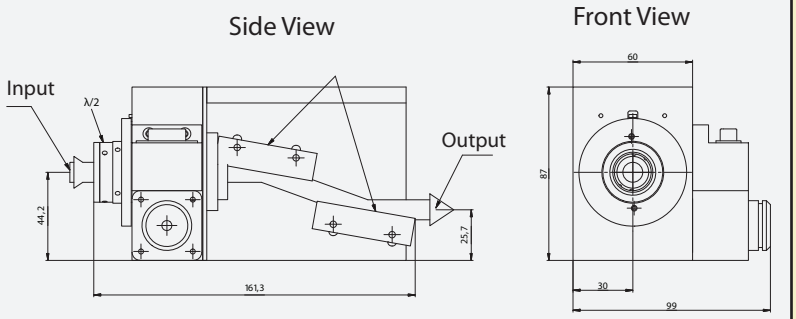
The OAGP-S Optical Attenuator

Product overview

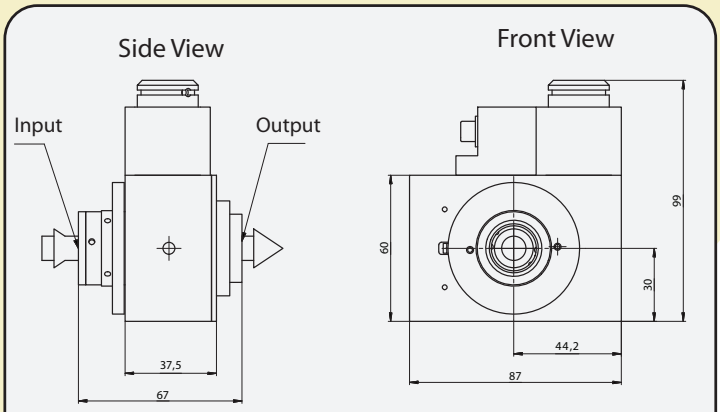
The optical attenuators OAFP-S (OAFP-M), OAGP-S (OAGP-M) are designed to attenuate laser radiation with more than 1:10³ ratio. The OAFP model comprises a thin zero-order half-wave phaseplate and two mirror polarizers that select the input pulse according to polarization. This model has been specially developed for pulsed femtosecond radiation (<50 fs) as it introduces as little dispersion to the pulse as possible. For longer pulse durations we offer the OAGP model, which has better transmission ratio as a Glan prism is used to simplify the scheme.

The attenuator comes in manual (-M) or motorized (-S) modification with USB interface and controller.

Attenuator technical specifications



OAFP-S



OAGP-S

	OAFP-S (OAFP-M)	OAGP-S (OAGP-M)
Dynamic attenuation range	$>10^2$	$>10^3$
Wavelength*	250-1500 nm	
Bandwidth**, % to central wavelength	2-5%	10-15%
Required input pulse duration	<50 fs	>50 fs
Transmission	>70%	>92%
Clear aperture	<10 mm	<12 mm
Angular rotation accuracy	0.03°	

** - please spicify with order;*
*** - depends on the central wavelength.*

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