

User Notes for 3A-BB-FS-10 Thermal Power/Energy Meter Ophir P/N 7Z07156

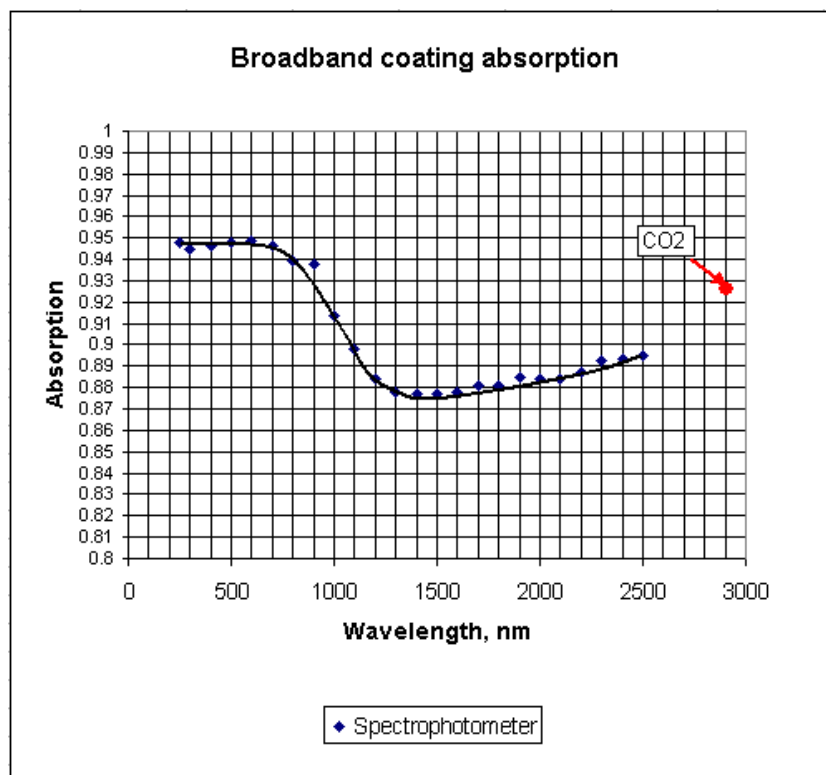
The 3A-FS thermal power meter with background compensation and removable fused silica window gives the lowest noise performance available from any thermal power meter. Because of its very low noise and drift, you can now measure laser powers down to tens of microwatts.

The 3A-FS has a removable fused silica window to eliminate air currents and long wavelength background thermal radiation. The fused silica (quartz) window transmits from 193nm to 2.5 μ m with virtually no absorption.

The 3A-FS has 4 wavelength settings as follows:

Wavelength name	Wavelength range	Calibration method
UV	0.2 to 0.4 μ m	Set to read 3% higher than the 532nm calibration
<0.8	0.4 – 0.8 μ m	532nm laser
<2.5	0.8 – 2.5 μ m	1070nm laser
OUT	2.5 – 20 μ m	10.6 μ m CO ₂ laser

To measure below 2.5 μ m, set to the wavelength name setting appropriate to the wavelength range your source is in. To measure beyond 2.5 μ m, remove the window and set to "OUT". For reference, below is a graph of the approximate spectral absorbance of the sensor (without window).



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