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Scattering Meter Calibration Sheet

8/26/2009
Wavelength: 412

S/N BB9-132

Use the following equation to obtain "scaled" output values:

$\beta(\theta_c) \text{ m}^{-1} \text{ sr}^{-1} = \text{Scale Factor } \times \text{ (Output - Dark Counts)}$					
 Scale Factor for 412 nm 	=	2.262E-05	(m ⁻¹ sr ⁻¹)/	counts	
Output	=	meter reading	counts		
Dark counts	=	34	counts		
Instrument Resolution	=	2.2	counts	4.95E-05 (m ⁻¹ sr ⁻¹)	

Definitions:

- Scale Factor: Calibration scale factor, $\beta(\theta_c)$ /counts. Refer to User's Guide for derivation.
- **Output**: Measured signal output of the scattering meter.
- Dark Counts: Signal obtained by covering detector with black tape and submersing sensor in water.

Instrument Resolution: Standard deviation of 1 minute of collected data.