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NTU Characterization Sheet

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S/N: NTURTD-115

Nephelometric Turbidity Unit (NTU) Scale Factor

Turbidity units expressed in NTU can be derived using the equation:

$$\text{NTU} = \text{Scale Factor} \times (\text{Output} - \text{Dark Counts})$$

	ASV1	ASV2	ASV4		Digital
Dark Counts	0.077	0.043	0.027	V	53 counts
NTU Solution Value	4.24	2.14	1.07	V	3486 counts
Scale Factor (SF)	6	13	25	NTU/V	0.0076 NTU/count
Maximum Output	4.97	4.97	4.97	V	16330 counts
Resolution	0.1	0.1	0.1	mV	0.7 counts
Ambient temperature during calibration	23.3		°C		

Dark Counts: Signal output of the meter in clean water with black tape over detector.

SF: Scale factor is determined using the following equation: $SF = xx \div (\text{Output} - \text{Dark Counts})$, where xx is the value of a Formazin concentration. For example: $12.2 \div (2011 - 50) = 0.0062$.

Maximum Output: Maximum signal output the meter is capable of.

Resolution: standard deviation of 1 minute of collected data.