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NTU Characterization Sheet

Date: 5/29/2015

Customer: MBARI

Job #: E0508021

S/N#: WL-30001

Tech: SML

Output channel: 3

NTU output range: 40

Nephelometric Turbidity Unit (NTU) Scale Factor

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

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

		Digital
Dark Counts	46	counts
NTU Solution Value	8021	counts
Scale Factor (SF)	0.0029	NTU/count
Resolution	4.2	counts
Ambient temperature during calibration	22.3	°C

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

NTU Solution Value: Signal output of the turbidity sensor when measuring a sample of interest.

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

Resolution: standard deviation of 1 minute of collected data.