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NTU Characterization Sheet

Date: 6/29/2011 650nm S/N: BB2FL-843

Nephelometric Turbidity Unit (NTU) Scale Factor

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

NTU = Scale Factor x (Output - Dark Counts)

			Di	Digital	
Dark Counts			50	counts	
NTU Solution Value			39	counts	
Scale Factor (SF)			0.0121 I	NTU/count	
Maximum Output			4130	counts	
Resolution			1.4	counts	
Ambient temperature during calibration	21.5	${\mathfrak C}$			

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

SF: Scale factor is determined using the following equation: $SF = xx \div (Output - Dark Counts)$, 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 cabable of.

Resolution: standard deviation of 1 minute of collected data.

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