

NTU Characterization Sheet

Date: 7/2/2019

S/N: BBFL2SSC-5745

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		50	counts
NTU Solution Value		1635	counts
Scale Factor (SF)		0.2410	NTU/count
Maximum Output		4130	counts
Resolution		1.0	counts
Ambient temperature during calibration	22	°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: $\text{SF} = \text{xx} \div (\text{Output} - \text{Dark Counts})$, where xx is the value of a Formazin concentration. For example: $12.2 \div (2011 - 50) = 0.0062$.

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

Resolution: standard deviation of 1 minute of collected data.