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## NTU Characterization Sheet

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### Nephelometric Turbidity Unit (NTU) Scale Factor

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

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

Dark Counts	50	Digital counts
NTU Solution Value	2641	counts
Scale Factor (SF)	0.0486	NTU/count
Maximum Output	4130	counts
Resolution	1.0	counts
Ambient temperature during calibration	22.3	°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:  $\text{SF} = \text{xx} \div (\text{Output} - \text{Dark Counts})$ , 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.