

# NTU Characterization Sheet

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S/N: FLBBCDPML-5643

## Nephelometric Turbidity Unit (NTU) Scale Factor

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

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

|  |      |        |                |
|--|------|--------|----------------|
|  |      |        | <b>Digital</b> |
| <b>Dark Counts</b>                     |      | 49     | counts         |
| <b>NTU Solution Value</b>              |      | 2360   | counts         |
| <b>Scale Factor (SF)</b>               |      | 0.0241 | NTU/count      |
| <b>Maximum Output</b>                  |      | 4130   | counts         |
| <b>Resolution</b>                      |      | 1.0    | counts         |
| Ambient temperature during calibration | 21.9 | °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.