

## FLNTU Characterization Sheet

Date: December 29, 2011

S/N: FLNTUS-1166

### Chlorophyll Scale Factor

Chlorophyll concentration expressed in  $\mu\text{g/l}$  can be derived using the equation:

$$\text{CHL } (\mu\text{g/l}) = \text{Scale Factor} \times (\text{Output} - \text{Dark Counts})$$

	Analog		Digital	
<b>Dark Counts</b>	0.074	V	57	counts
<b>Scale Factor (SF)</b>	10	$\mu\text{g/l/V}$	0.0119	$\mu\text{g/l/count}$
<b>Maximum Output</b>	4.97	V	4121	counts
<b>Resolution</b>	1.8	mV	1.9	counts
Ambient temperature during calibration	22.3	°C		

### Nephelometric Turbidity Unit (NTU) Scale Factor

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

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

	Analog		Digital	
<b>Dark Counts</b>	0.061	V	51	counts
<b>NTU Solution Value</b>	3.83	V	3164	counts
<b>Scale Factor (SF)</b>	5	NTU/V	0.0061	NTU/count
<b>Maximum Output</b>	4.96	V	4121	counts
<b>Resolution</b>	1.1	mV	1.1	counts
Ambient temperature during calibration	22.3	°C		

See reverse side for definition of terms.