

## FLNTU Characterization Sheet

Date: October 21, 2009

S/N: FLNTUS-350

### 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	
Dark Counts	0.082	V	58	counts
Scale Factor (SF)	11	$\mu\text{g/l/V}$	0.0130	$\mu\text{g/l/count}$
Maximum Output	4.90	V	4119	counts
Resolution	0.6	mV	1.0	counts
Ambient temperature during calibration	22.3	$^{\circ}\text{C}$		

### 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	
Dark Counts	0.082	V	53	counts
NTU Solution Value	3.25	V	2703	counts
Scale Factor (SF)	5	NTU/V	0.0062	NTU/count
Maximum Output	4.90	V	4119	counts
Resolution	0.6	mV	1.0	counts
Ambient temperature during calibration	22.3	$^{\circ}\text{C}$		

See reverse side for definition of terms.