

## FLNTU Characterization Sheet

Date: April 22, 2010

S/N: FLNTUS-1165

### 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	0.090	V	57	counts
Scale Factor (SF)	10	$\mu\text{g/l/V}$	0.0122	$\mu\text{g/l/count}$
Maximum Output	4.98	V	4118	counts
Resolution	1.6	mV	1.7	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	0.056	V	52	counts
NTU Solution Value	3.39	V	2788	counts
Scale Factor (SF)	5	NTU/V	0.0061	NTU/count
Maximum Output	4.96	V	4118	counts
Resolution	1.2	mV	1.1	counts
Ambient temperature during calibration	22.3	$^{\circ}\text{C}$		

See reverse side for definition of terms.