

FLNTU Characterization Sheet

Date: February 3, 2011

S/N: FLNTURT-2148

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	0.071	V	51	counts
Scale Factor (SF)	6	$\mu\text{g/l/V}$	0.0072	$\mu\text{g/l/count}$
Maximum Output	4.97	V	4130	counts
Resolution	0.1	mV	1.0	counts
Ambient temperature during calibration	21.5	$^{\circ}\text{C}$		

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	0.093	V	53	counts
NTU Solution Value	4.45	V	3603	counts
Scale Factor (SF)	2	NTU/V	0.0024	NTU/count
Maximum Output	4.97	V	4130	counts
Resolution	0.7	mV	1.0	counts
Ambient temperature during calibration	21.5	$^{\circ}\text{C}$		

See reverse side for definition of terms.