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DISSOLVED OXYGEN SENSOR CALIBRATION: S/N 130364 16 March 2001

Primary

Sensor type:

Beckman, Module S/N 10205-01

Sensor Current

m = 2.4614 E-7

b = -5.0212 E-10

The use of these constants in a linear equation of the form

$$I = mV + b$$

will yield DO sensor membrane current as a function of sensor output voltage.

Sensor Compensation Temperature

k = 9.0037

c = -6.8110

The use of these constants in a linear equation of the form

$$T = kV + c$$

will yield membrane temperature as a function of temperature channel voltage with a maximum error of about 0.5 deg C. The correction to dissolved oxygen resulting from the use of this calibration should be sufficient to achieve the precision of which the sensor is capable.

SEASOFT Coefficients based on Oxfit Calibration Results

Soc	2.7018	
Boc	-0.0113	
tcor	-0.033	(nominal)
pcor	1.50e-4	(nominal)
tau	2.0	(for profiling applications only)
tau	0.0	(for moored applications only)
wt	0.67	(for Beckman type sensors)
wt	0.85	(for YSI type sensors)

barometer	=	1014.008	mB
Twater	=	4.574	deg C
Tcomp	=	4.290	deg C
Isat	=	0.434	uA
Iair	=	0.524	uA
Izero	=	0.004	uA

CALIBRATION
AFTER
MODIFICATIONS