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**DISSOLVED OXYGEN SENSOR CALIBRATION: S/N 130381 16 March 2001**

*Secondary*

Sensor type:

Beckman, Module S/N 10205-04

Sensor Current

m = 2.4496 E-7  
b = -2.7680 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 = 9.0214  
c = -6.7355

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	2.8062	
Boc	-0.0123	
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	=	1014.015	mB
Twater	=	4.555	deg C
Tcomp	=	4.216	deg C
Isat	=	0.418	uA
Iair	=	0.528	uA
Izero	=	0.004	uA

**CALIBRATION  
AFTER  
MODIFICATIONS**