



CALIBRATION CERTIFICATE

AANDERAA DATA INSTRUMENTS

Electronic board: 3623
Electronic board serial: 1098
Reference reading: 816

Product: RCM 9
Serial No: 862
Calibration Date: January 5, 2011

For details; see the individual Calibration Sheets.

The calibration coefficients listed below are valid for sensors with the following serial numbers:

Sensor	Type	Serial No.	Range
Doppler Current Sensor	3920	430	
Temperature Sensor	3621	1128	
			Arctic: -3.13 to 5.83
			High: 9.68 to 36.61
			Low: -2.83 to 21.70
			Wide: -0.75 to 32.80
Conductivity Sensor	3619	746	0 - 74 mS/cm
Pressure Sensor	3815B	611	0 - 3500 kPa
Turbidity Sensor			
Oxygen Sensor			

Calibration Coefficients:

Ch. No.	Parameter	A	B	C	D	Unit
1	Reference	0.000E+00	1.00E+00	0.000E+00	0.000E+00	-
2	Current Speed	0.000E+00	2.93E-01	0.000E+00	0.000E+00	cm/s
3	Current Direction	0.000E+00	3.52E-01	0.000E+00	0.000E+00	Deg. M
4	Temperature Range					
	Arctic	-3.131E+00	8.993E-03	-3.476E-07	1.134E-10	Deg. C
	High	9.681E+00	2.398E-02	-5.941E-07	2.820E-09	Deg. C
	Low	-2.825E+00	2.411E-02	-2.238E-06	2.056E-09	Deg. C
	Wide	-7.476E-01	3.421E-02	-6.292E-06	4.800E-09	Deg. C
	Other					
5	Conductivity	0.000E+00	7.267E-02	0.000E+00	0.000E+00	mS/cm
6	Pressure	-2.869E+01	3.475E+00	4.756E-05	0.000E+00	kPa
7	Turbidity					NTU
8	Oxygen					uM

Date:
January 5, 2011

Sign: Shawn A. Sneddon


Service and Calibration Engineer

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1. Visual and Mechanical Checks:

- 1.1 Sensors fixed in correct position
- 1.2 Wire harness, screws and sensor plugs
- 1.3 Epoxy coating intact
- 1.4 Zinc anode installed
- 1.5 Clean and inspect O-ring groove

2. Performance Tests of complete instrument:

- 2.1 Current consumption at continuous operation, maximum 120 mA
- 2.2 Current consumption between measurements at 120 min. interval, maximum 1.0 mA average
- 2.3 Check operation with Test Unit 3751, -5C to +35C, (all channels tested, 16 hour run, data stored in DSU 2990)
- 2.4 Check remote start, PDC-4 output and external powering
- 2.5 Electrical isolation between system ground and Top end-plate

3. Final Check prior to Shipment:

- 3.1 Doppler Current Sensor is tested with Test Unit 3731
- 3.2 Temperature readings correspond to room temperature
- 3.3 Conductivity Sensor reads correct with seawater loop
- 3.4 Check that the pressure sensor is oil filled
- 3.5 Pressure Sensor gives correct reading at air pressure
- 3.6 Turbidity reading increases when a reflector is placed 20cm in front of it
- 3.7 The oxygen sensor reads maximum in air
- 3.8 Erased DSU installed
- 3.9 Set temperature range switch to default setting and conductivity range to 0-74 mS/cm
- 3.10 Set interval switch to 10 min, channel selector to 8 channel and OFF/ON switch to OFF position
- 3.11 Inspect O-ring groove and clean
- 3.12 Replace Top-End Plate and Receptacle O-ring



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Layout No:
Program Version:

Product: Conductivity Sensor 3619
Serial No: 746
Calibration Date: December 17, 2010

Calibration

The calibration of each sensor is carried out at the factory and the calibration is valid for all following data handling. The form below is filled in only where necessary, depending upon which type of sensor it concerns.

Range		Loop-Reading			Reading in seawater	
0 -74 mS/cm		N(open)=	0	Reference conductivity: 36.19 mS/cm		
		N(2000)=	18	Instrument reading: 498 Raw data		
		N(50)=	761			
		N(o)= 0				
A=	0.000E+00	COND	0.00	36.19	Cell form factor K=	2.769
B=	7.267E-02	N	0	498	Not in use.	

Date:
December 17, 2010

Sign: Shawn Sneddon

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CALIBRATION CERTIFICATE

Layout No:
Range: 0 - 3500 kPa

Product: Pressure Sensor 3815B
Serial No: 611
Calibration Date: January 5, 2011

Calibration

The calibration of each sensor is carried out at the factory and the calibration is valid for all following data handling. The form below is filled in only where necessary, depending upon which type of sensor it concerns.

Pressure		Coefficients (kPa)	
Bar	Reading N		
Air	38	A	-2.869E+01
7	238	B	3.475E+00
16	495	C	4.756E-05
24	721	D	0.000E+00
33	974		

Date:
January 5, 2011

Sign: Shawn Sneddon



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