

CALIBRATION CERTIFICATE

AANDERAA DATA INSTRUMENTS

Electronic board: Reference reading: 3623

Electronic board serial: 766

Product:

RCM 9 MkII

Serial No: 663

Calibration Date: February 17, 2011

For details; see the individual Calibration Sheets.

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

Sensor	Туре	Serial No.		Range
Doppler Current Sensor	3920	206		
Temperature Sensor	3621	775		
A STATE OF THE STA			Arctic:	-3.06 to 5.88
			High:	9.76 to 36.64
ob yalis pag	110	Î	Low:	-2.75 to 21.74
			Wide:	-0.67 to 32.84
Conductivity Sensor				
Pressure Sensor	3815D	160	0 - 20 MPa	
Turbidity Sensor	3612	593	0 - 20 NTU	
Oxygen Sensor	Take I			

Calibration Coefficients:

Ch. No.	Parameter	A	В	C	D	Unit
	Reference	0.000E+00	1.00E+00	0.000E+00	0.000E+00	1 100 1 100
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				ZiI_	D VERY YELL
	Arctic	-3.064E+00	8.982E-03	-3.476E-07	1.134E-10	Deg. C
	High	9.756E+00	2.394E-02	-5.941E-07	2.820E-09	Deg. C
	Low	-2.747E+00	2.408E-02	-2.238E-06	2.056E-09	Deg. C
	Wide	-6.687E-01	3.417E-02	-6.292E-06	4.800E-09	Deg. C
	Other					
5	Conductivity					mS/cm
6	Pressure	-6.113E-01	2.062E-02	-2.478E-08	0.000E+00	MPa
7	Turbidity	-9.184E-01	2.731E-02	-1.842E-05	1.699E-08	NTU
8	Oxygen					uM
deski L						Charles Co.

Date:

February 17, 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
- 2.6 Compass verification every 15° (max error ±5°)

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 to customer settings
- 3.11 Inspect O-ring groove and clean
- 3.12 Replace Top-End Plate and Receptacle O-ring

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CALIBRATION CERTIFICATE

AANDERAA DATA INSTRUMENTS

Layout No:

Range: 0 - 20 MPa

Product: Pressure Sensor 3815D

Serial No: 160

Calibration Date: February 10, 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	35	Α	-6.113E-01	
50	276	В	2.062E-02	
100	520	C	-2.478E-08	
150	763	D	0.000E+00	
200	1005		•	

Date:

February 10, 2011

Sign: Shawn Sneddon

Service and Calibration Engineer

