CALIBRATION SHEET

Name

RINKO-III

Model : ARO-CAV-SB

Serial No. :

0137

Parameter

Temperature

Dissolved Oxygen



Ocean and River Instruments Division

Kobe Sales Department

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Temperature

MODEL

: ARO-CAV-SB

SERIAL

: 0137

DATE

: August 1, 2013

Loaction

: Calibration office of manfacture department at Kobe

Method

: The instrument is calibrated in a constant temperature water tank.

5 outputs in n-value corresponding to 5 water temperature ranging from

3 to 31 degrees C are computed by least square method.

(To make the tank temperature constant, water is stirred. The reference

temperature is measured by a thermometer)

Reference

: Platinum thermometer (certified by JCSS)

Temperature : Temperature ($^{\circ}$ C) = A+B×N+C×N²+D×N³

A = -5.767044E+00

B = 1.6577460E+01

C = -2.123403E+00

D = 4.5635700E-01

Reference	Output	Calculated	Error
[℃]	[V]	[°C]	[°C]
3.590	0.60529	3.590	0.000
10.188	1.07648	10.187	-0.001
17.001	1.58588	17.003	0.002
24.307	2.12903	24.306	-0.001
31.279	2.61877	31.279	0.000

Criteria for acceptability

- : 1. The errors in above form must be within ±0.02℃
 - 2. After writing the calibration coefficients into instrument,

one point check at any temperature must agree with the accuracy

declared by the instrument.

Output Check:

	Reference	Calculated	Error
	[°C]	[°C]	[°C]
1	23.109	23.113	0.004

Judgement

Good

Calibration group,

Ocean and River Instruments Division

JFE Advantech Co., LTD



Dissolved Oxygen

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Method

: 2 points calibration of span and zero is carried out with 100% saturation water and nigrogen gas. Calibration should be done after making the instruments accustomed in the water and keeping saturation with air-

bubbling. Outputs in saturated water and nitr

Film No=	132002A		
A =	-44.7150	E =	0.0044
B =	150.484	F =	0.00
C =	-0.33839	G =	0.00
D =	0.0102	H =	1.00

Results

Temperature at calibration[℃]	25	
Air pressure at calibration[hPa]	996.8	
Air saturation at calibration[%]	98.3	

	Span output	zero output	Span Error	Zero Error
	[%]	[%]	[%]	[%]
1st	98.11	-0.03	-0.21	-0.03
2nd	98.11	-0.07	-0.21	-0.07
3rd	97.98	-0.07	-0.34	-0.07

Judgement

: Good

Calibration group,

Ocean and River Instruments Division

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