CALIBRATION SHEET

Name

: RINKO-III

Model : ARO-CAV-SB

Serial No. :

0136

Parameter

Temperature

Dissolved Oxygen



Ocean and River Instruments Division

Kobe Sales Department

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Temperature

MODEL

: ARO-CAV-SB

SERIAL

: 0136

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)

A = -5.398903E+00

B = 1.6628530E+01

C = -2.129938E+00

D = 4.5760250E-01

Reference	Output	Calculated	Error
[℃]	[V]	[℃]	[℃]
3.582	0.57758	3.583	0.001
10.195	1.04627	10.192	-0.003
16.997	1.55298	17.002	0.005
24.305	2.09534	24.302	-0.003
31.285	2.58691	31.286	0.001

Criteria for acceptability

- : 1. The errors in above form must be within ±0.02°C
 - 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]	$[^{\circ}C]$
23.106	23.108	0.002

Judgement

: Good

Calibration group,

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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 airbubbling. Outputs in saturated water and nitr

Film No=	132002A
A =	-45.0894
B =	151 736

$$E = 0.0044 F = 0.00 G = 0.00 H = 1.00$$

 $C = \frac{-0.33974}{0.0102}$

Results

Temperature at calibration[°C]	25
Air pressure at calibration[hPa]	996.9
Air saturation at calibration[%]	98.3

	Span output	zero output	Span Error	Zero Error
	[%]	[%]	[%]	[%]
1st	98.29	-0.01	-0.03	-0.01
2nd	98.29	-0.05	-0.03	-0.05
3rd	98.16	-0.07	-0.16	-0.07

Judgement

: Good

Calibration group,

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