CALIBRATION CERTIFICATE

NAME

: COMPACT-CT

MODEL : ACT-HR

SERIAL No. : 1578

Parameter : Temperature

Conductivity

Temperature Calibration Certificate

Model

ACT-HR

Serial No.

1578

Date

December 01, 2015

Location

Production Section

Method

Calibration equation is determined from third order regression of samples of the

reference temperature against A/D values. Samples are taken at approximately

3, 10, 17, 24, and 31 °C.

1. Equation

Instrument temperature[°C] = A+B × N+C × N^2 +D × N^3

N: A/D value

2. Coefficients

-6.627438e00 A =

1.082061e-03 B =

-8.749025e-09 C=

9.639211e-14 D =

3. Calibration results

Reference temperature [°C]	A/D value	Instrument temperature [°C]	Residual error [°C]	Acceptance [°C]	OK/NG
2.658	9197	2.659	0.001	±0.050	OK
9.862	17167	9.858	-0.004	±0.050	ОК
16.647	25232	16.653	0.006	±0.050	OK
23.662	33781	23.658	-0.004	±0.050	ОК
30.398	41850	30.399	0.001	±0.050	ОК

4. Verification

Criteria of iudgement Residual error of the instrument temperature at arbitrary point is within the

acceptance value.

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Reference	Instrument temperature	Residual error	Acceptance	Judgement
temperature [°C]	[°C]	[°C]	[°C]	
19.715	19.717	0.002	±0.050	Passed

Examined M. Kano Approved a. Fukuoka

Approved

Conductivity Calibration Certificate

Model

ACT-HR

Serial No.

1578

Date

December 01, 2015

Location

Production Section

Method

Calibration equation is determined from linear regression of samples of the

reference conductivity against A/D values. Samples are taken at approximately

20, 30, 40, and 50 mS/cm.

1. Equation

Instrument conductivity[mS/cm] = $A+B \times N$

N: A/D value

2. Coefficients

-6.521035e-01

B =

1.000304e-03

3. Calibration results

Reference conductivity [mS/cm]	A/D value	Instrument conductivity [mS/cm]	Residual error [mS/cm]	Acceptance [mS/cm]	OK/NG
19.444	20091	19.445	0.001	±0.050	OK
30,494	31137	30.494	0.000	±0.050	OK
40.022	40661	40.020	-0.002	±0.050	ОК
51.556	52193	51.557	0.001	±0.050	OK

4. Verification

Criteria of iudgement Residual error of the instrument conductivity at arbitrary point is within the

acceptance value.

Reference conductivity [mS/cm]	Instrument conductivity [mS/cm]	Residual Acceptance error [mS/cm] [mS/cm]		Judgement	
45.804	45.800	-0.004	±0.050	Passed	

Examined

m. Kano a. Fukuoka

Approved