CALIBRATION CERTIFICATE

NAME : COMPACT-CT

MODEL : ACT-HR

SERIAL No. : 1301

Parameter : Temperature

Conductivity

Temperature Calibration Certificate

Model

ACT-HR

Serial No.

1301

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

-8.057364e00 A =

1.074636e-03 B =

-8.430444e-09

D = 9.245523e-14

3. Calibration results

Reference temperature [°C]	A/D value	Instrument temperature [°C]	Residual error [°C]	Acceptance [°C]	OK/NG
2.658	10775	2.659	0.001	±0.050	ÖK
9.862	18892	9.859	-0.003	±0.050	OK
16.647	27024	16.652	0.005	±0.050	ОК
23.662	35566	23.659	-0.003	±0.050	OK
30.398	43560	30.399	0.001	±0.050	ОК

4. Verification

Criteria of iudgement

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

accentance value

-	ludgement	acceptance value			
	Reference	Instrument	Residual	Acceptance	Judgement
ı	temperature [°C]	temperature [°C]	error [°C]	[°C]	Judgement
ŧ	19.715	19.715	0.000	±0.050	Passed

Examined

M. Kano a. Fukuoka Approved

Conductivity Calibration Certificate

Model

ACT-HR

Serial No.

1301

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

-6.628440e-01

B = 1.010598e-03

3. Calibration results

Reference conductivity [mS/cm]	A/D value	Instrument conductivity [mS/cm]	Residual error [mS/cm]	Acceptance [mS/cm]	OK/NG
19.409	19862	19.410	0.001	±0.050	OK
30.456	30792	30.455	-0.001	±0.050	OK
39.981	40216	39.979	-0.002	±0.050	OK
51.492	51609	51.493	0.001	±0.050	OK

4. Verification

Criteria of iudgement

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

acceptance value.

Jaagement						
	Reference conductivity	Instrument conductivity	Residual error	Acceptance	Judgement	
	[mS/cm]	[mS/cm]	[mS/cm]	[mS/cm]		
	45.752	45.750	-0.002	±0.050	Passed	

Approved

m. Kano a. Fukuo ka