Temperature Calibration Certificate

Model	:	ACTW-CAD
Serial No.	:	0681
Date	:	November 04, 2022
Location	:	Production Section
Method	:	Calibration equation is determined from fifth order regression of samples of the reference temperature against A/D values. Samples are taken at approximately 0, 5, 10, 15, 20, 25, 30, and 35 ℃.

1. Equation

Instrument temperature[℃] = $A+B\times N+C\times N^2+D\times N^3+E\times N^4+F\times N^5$ N: A/D value

2. Coefficients

A =	−7.346412e+00	D =	+3.274107e−13
B =	+1.144861e−03	E =	−4.074187e−18
C =	−1.377010e−08	F =	+2.945153e−23

3. Calibration results

Reference temperature [℃]	A/D value	Instrument temperature [℃]	Residual error [℃]	Acceptance [℃]	OK/NG
0.100	7004.1	0.100	0.000	±0.005	OK
5.081	12197.6	5.081	0.000	±0.005	OK
10.022	17644.2	10.021	−0.001	±0.005	OK
15.100	23419.6	15.101	0.001	±0.005	OK
20.019	29041.3	20.018	−0.001	±0.005	OK
25.016	34658.2	25.017	0.001	±0.005	OK
29.987	40032.7	29.987	0.000	±0.005	OK
34.935	45082.9	34.935	0.000	±0.005	OK

4. Verification

Criteria of judgement : Residual error of the instrument temperature at arbitrary point is within the acceptance value.

Reference temperature [℃]	Instrument temperature [℃]	Residual error [℃]	Acceptance [℃]	Judgement
12.636	12.635	−0.001	±0.008	Passed

Examined T. Souma

Approved M. Ujinaki

JFE Advantech Co., Ltd.