

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 6353
CALIBRATION DATE: 30-Dec-14

SBE 19plus V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.283641e-003
a1 = 2.583562e-004
a2 = -3.181298e-008
a3 = 1.394989e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	647486.847	1.0000	0.0000
4.5000	574666.644	4.5000	-0.0000
15.0000	393534.644	15.0000	0.0000
18.5000	344882.932	18.5000	0.0000
24.0000	278892.424	24.0000	-0.0000
29.0000	228745.847	29.0000	-0.0000
32.5000	198512.119	32.5000	0.0000

$$MV = (n - 524288) / 1.6e+007$$

$$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$$

$$\text{Temperature ITS-90} = 1 / \{a_0 + a_1[\ln(R)] + a_2[\ln^2(R)] + a_3[\ln^3(R)]\} - 273.15 \text{ (}^\circ\text{C)}$$

$$\text{Residual} = \text{instrument temperature} - \text{bath temperature}$$

