

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6353  
CALIBRATION DATE: 04-Nov-15

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

## COEFFICIENTS:

a0 = 1.278963e-003  
a1 = 2.600917e-004  
a2 = -2.461088e-007  
a3 = 1.483211e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9997	647476.322	0.9997	0.0000
4.5000	574653.644	4.4999	-0.0001
14.9999	393527.034	14.9999	0.0000
18.4999	344876.441	18.4999	0.0000
24.0000	278886.051	23.9999	-0.0001
29.0000	228740.746	29.0000	0.0000
32.5000	198508.508	32.5000	0.0000

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

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

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

Residual = instrument temperature - bath temperature

