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SENSOR SERIAL NUMBER: 3385

CALIBRATION DATE: 08-Dec-16

SBE 21 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

$g = 4.15518581e-003$

$h = 6.07054164e-004$

$i = 1.78531021e-005$

$j = 1.25738480e-006$

$f_0 = 1000.0$

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2354.547	1.0000	-0.00003
4.5000	2549.484	4.5001	0.00006
15.0000	3204.774	15.0000	-0.00000
18.5000	3447.863	18.4999	-0.00014
24.0000	3856.095	24.0002	0.00020
29.0000	4255.889	28.9999	-0.00010
32.4999	4552.553	32.4999	0.00002

f = Instrument Output (Hz)

Temperature ITS-90 (°C) = $1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

