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SENSOR SERIAL NUMBER: 1701  
CALIBRATION DATE: 14-Apr-21

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.39854989e-003  
h = 6.44758103e-004  
i = 2.31365036e-005  
j = 2.19819361e-006  
f0 = 1000.0

| BATH TEMP<br>(° C) | INSTRUMENT<br>OUTPUT (Hz) | INST TEMP<br>(° C) | RESIDUAL<br>(° C) |
|--------------------|---------------------------|--------------------|-------------------|
| -1.5000            | 3174.684                  | -1.5000            | 0.00003           |
| 1.0000             | 3357.600                  | 1.0000             | -0.00003          |
| 4.5000             | 3626.318                  | 4.5000             | -0.00001          |
| 8.0000             | 3910.140                  | 8.0000             | -0.00001          |
| 11.5000            | 4209.474                  | 11.5000            | 0.00002           |
| 15.0000            | 4524.706                  | 15.0000            | 0.00003           |
| 18.5000            | 4856.213                  | 18.5000            | -0.00001          |
| 22.0000            | 5204.365                  | 22.0000            | -0.00003          |
| 25.5000            | 5569.519                  | 25.5000            | -0.00001          |
| 29.0000            | 5952.007                  | 29.0000            | 0.00001           |
| 32.5000            | 6352.149                  | 32.5000            | 0.00000           |

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

