

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4590

CALIBRATION DATE: 19-Apr-12

SBE 37 PRESSURE CALIBRATION DATA

508 psia S/N 9315

COEFFICIENTS:

PA0 = -2.340613e-002

PA1 = 2.410512e-002

PA2 = 2.675293e-009

PTCA0 = 2.447165e+001

PTCA1 = 8.976559e-002

PTCA2 = -5.907767e-003

PTCB0 = 2.502950e+001

PTCB1 = 1.000000e-004

PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE PSIA	INST OUTPUT	TEMP ITS90	COMPUTED PRESSURE	ERROR %FS
14.64	632.0	22.5	14.64	0.00
104.88	4373.1	22.5	104.87	-0.00
204.87	8516.9	22.6	204.89	0.00
304.88	12655.8	22.6	304.88	0.00
404.89	16790.7	22.6	404.87	-0.00
504.87	20922.5	22.6	504.87	0.00
404.88	16792.0	22.6	404.90	0.00
304.91	12657.0	22.6	304.91	0.00
204.90	8517.6	22.6	204.90	0.00
104.90	4374.4	22.6	104.90	-0.00
14.64	631.8	22.7	14.64	-0.00

THERMAL CORRECTION

TEMP ITS90	INST OUTPUT	TEMP ITS90	SPAN MV
32.50	659.25	-5.00	25.03
29.00	660.20	35.00	25.03
24.00	661.51		
18.50	662.18		
15.00	662.68		
4.50	662.66		
1.00	662.86		

$$x = \text{pressure output} - \text{PTCA0} - \text{PTCA1} * t - \text{PTCA2} * t^2$$

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

$$\text{pressure (psia)} = \text{PA0} + \text{PA1} * n + \text{PA2} * n^2$$

Date, Avg Delta P %FS

19-Apr-12 0.00

