

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER = 2399  
 CALIBRATION DATE: 08-Apr-02

PRESSURE CALIBRATION DATA  
 5076 psia S/N 1549

## SBE 37 PRESSURE COEFFICIENTS

PA0 = -3.680558e+00  
 PA1 = 2.429529e-01  
 PA2 = -1.652373e-07

PTCA0 = -9.022740e+01  
 PTCA1 = -4.263861e-01  
 PTCA2 = -8.823848e-03  
 PTCB0 = 2.495288e+01  
 PTCB1 = -2.250000e-04  
 PTCB2 = 0.000000e+00

### PRESSURE SPAN CALIBRATION:

PRESSURE PSIA	PRESSURE OUTPUT	TEMP (ITS-90 °C)	COMPUTED PRESSURE	ERROR % FSR
14.70	-29.2	23.8	14.83	0.00
1114.80	4510.8	23.8	1114.55	-0.00
2114.71	8663.7	23.8	2114.54	-0.00
3114.65	12840.8	23.8	3114.60	-0.00
4114.46	17042.0	23.8	4114.61	0.00
5114.23	21265.7	23.8	5114.10	-0.00
4114.43	17042.4	23.8	4114.71	0.01
3114.60	12841.4	23.8	3114.74	0.00
2114.66	8664.3	23.8	2114.68	0.00
1114.67	4511.0	23.8	1114.60	-0.00
14.67	-29.5	23.8	14.76	0.00

### THERMAL OFFSET:

TEMPERATURE (ITS-90 °C)	PRESSURE OUTPUT
32.50	-60.42
29.00	-59.90
24.00	-51.48
18.50	-48.62
15.00	-47.00
4.50	-40.74
1.00	-37.88

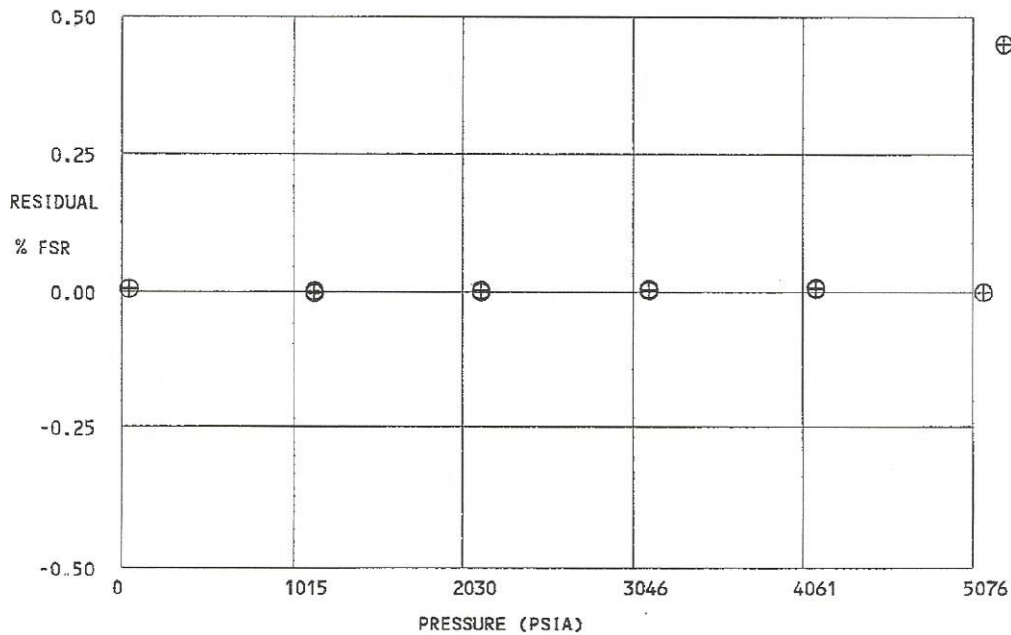
### SPAN THERMAL SENSITIVITY:

TEMPERATURE (ITS-90 °C)	SPAN MV
-5.00	24.95
35.00	24.95

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

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

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



calibration date

⊕ 08-Apr-02

0.00