



Sea-Bird Scientific
 13431 NE 20th Street
 Bellevue, WA 98005
 USA

+1 425-643-9866
 seabird@seabird.com
 www.seabird.com

SENSOR SERIAL NUMBER: 4579
 CALIBRATION DATE: 06-Jul-17

SBE 41cp PRESSURE CALIBRATION DATA
 2900 psia S/N 10597261

COEFFICIENTS:

PA0 =	4.206236e-001	PTCA0 =	-7.982625e+000
PA1 =	1.404280e-001	PTCA1 =	1.932863e-001
PA2 =	-3.763800e-008	PTCA2 =	-2.937819e-003
PTHA0 =	-6.383980e+001	PTCB0 =	2.515525e+001
PTHA1 =	5.502015e-002	PTCB1 =	-1.150000e-003
PTHA2 =	-8.909421e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.66	96.7	1657.5	14.72	0.00	32.50	1803.60	100.17
591.67	4205.7	1655.4	591.72	0.00	29.00	1736.20	100.33
1168.85	8325.5	1654.3	1168.96	0.00	23.99	1640.20	100.29
1746.07	12454.1	1653.8	1746.15	0.00	18.50	1534.40	99.69
2323.27	16591.9	1653.6	2323.33	0.00	15.00	1467.90	99.17
2900.49	20738.6	1653.0	2900.46	-0.00	4.50	1268.10	97.92
2323.19	16590.7	1651.6	2323.16	-0.00	1.00	1201.90	97.37
1746.37	12455.4	1650.1	1746.32	-0.00			
1168.88	8324.1	1648.2	1168.75	-0.00	TEMPERATURE (°C)	SPAN (mV)	
591.66	4204.6	1646.7	591.56	-0.00	-5.00	25.16	
14.66	96.1	1643.0	14.64	-0.00	35.00	25.11	

y = thermistor output (counts)

$$t = PTHA0 + PTHA1 * y + PTHA2 * y^2$$

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

$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

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

$$\text{Residual (\%FSR)} = (\text{computed pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$$

Date, Offset (%FSR)

● 06-Jul-17 -0.00

