



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

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

SENSOR SERIAL NUMBER: 9309
CALIBRATION DATE: 07-Sep-21

SBE 37 V2 PRESSURE CALIBRATION DATA
870 psia S/N 3270608

COEFFICIENTS:

PA0 =	2.052821e-001	PTCA0 =	5.248433e+005
PA1 =	2.772936e-003	PTCA1 =	4.404386e+000
PA2 =	1.945557e-011	PTCA2 =	-5.989719e-002
PTEMPA0 =	-5.925114e+001	PTCB0 =	2.515675e+001
PTEMPA1 =	5.503123e-002	PTCB1 =	-5.000000e-005
PTEMPA2 =	-7.504932e-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)
14.53	530083.0	1578.0	14.53	0.00	32.50	1707	530357.00
179.67	589613.0	1580.0	179.69	0.00	29.00	1640	530353.86
359.67	654433.0	1584.0	359.69	0.00	24.00	1546	530348.17
539.67	719192.0	1585.0	539.68	0.00	18.50	1441	530337.84
719.66	783892.0	1586.0	719.67	0.00	15.00	1375	530329.65
869.63	837757.0	1587.0	869.64	0.00	4.50	1177	530295.36
719.67	783885.0	1589.0	719.65	-0.00	1.00	1112	530281.29
539.70	719193.0	1589.0	539.68	-0.00	TEMPERATURE (°C) -5.00 35.00		SPAN 25.16 25.16
359.70	654429.0	1590.0	359.68	-0.00			
179.70	589618.0	1591.0	179.71	0.00			
14.52	530074.0	1592.0	14.50	-0.00			

y = thermistor output (counts)

t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y²

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t²

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

pressure (PSIA) = PA0 + PA1 * n + PA2 * n²

Residual (%FSR) = (computed pressure - true pressure) * 100 / Full Scale Range

Date, Offset (%FSR)

● 07-Sep-21 -0.00

