



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

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

SENSOR SERIAL NUMBER: 4955  
CALIBRATION DATE: 01-Dec-22

SBE 19plus PRESSURE CALIBRATION DATA  
508 psia S/N 10811914

COEFFICIENTS:

PA0 =	-1.553736e-002	PTCA0 =	5.234952e+005
PA1 =	1.541625e-003	PTCA1 =	1.052816e+000
PA2 =	9.842969e-012	PTCA2 =	-7.244704e-002
PTEMPA0 =	-7.574334e+001	PTCB0 =	2.505288e+001
PTEMPA1 =	4.898356e+001	PTCB1 =	2.375000e-003
PTEMPA2 =	-2.180284e-001	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
14.39	532872.0	2.0	14.43	0.01	32.50	2.23	533163.73
114.08	597587.8	2.0	114.05	-0.01	29.00	2.16	533172.25
213.42	662085.8	2.0	213.41	-0.00	24.00	2.06	533183.44
313.04	726825.8	2.0	313.23	0.04	18.50	1.94	533201.33
412.45	791206.6	2.0	412.58	0.02	15.00	1.87	533205.12
512.01	855571.0	2.0	511.98	-0.01	4.50	1.65	533205.80
412.64	791151.0	2.0	412.49	-0.03	1.00	1.58	533205.35
313.27	726834.2	2.0	313.24	-0.01	TEMPERATURE (°C)      SPAN		
213.82	662320.2	2.0	213.77	-0.01			
114.32	597701.2	2.0	114.22	-0.02			
14.39	532877.6	2.0	14.44	0.01			
					-5.00		25.04
					35.00		25.14

y = thermistor output (volts)

t = PTEMPA0 + PTEMPA1 \* y + PTEMPA2 \* y<sup>2</sup>

x = instrument output - PTCA0 - PTCA1 \* t - PTCA2 \* t<sup>2</sup>

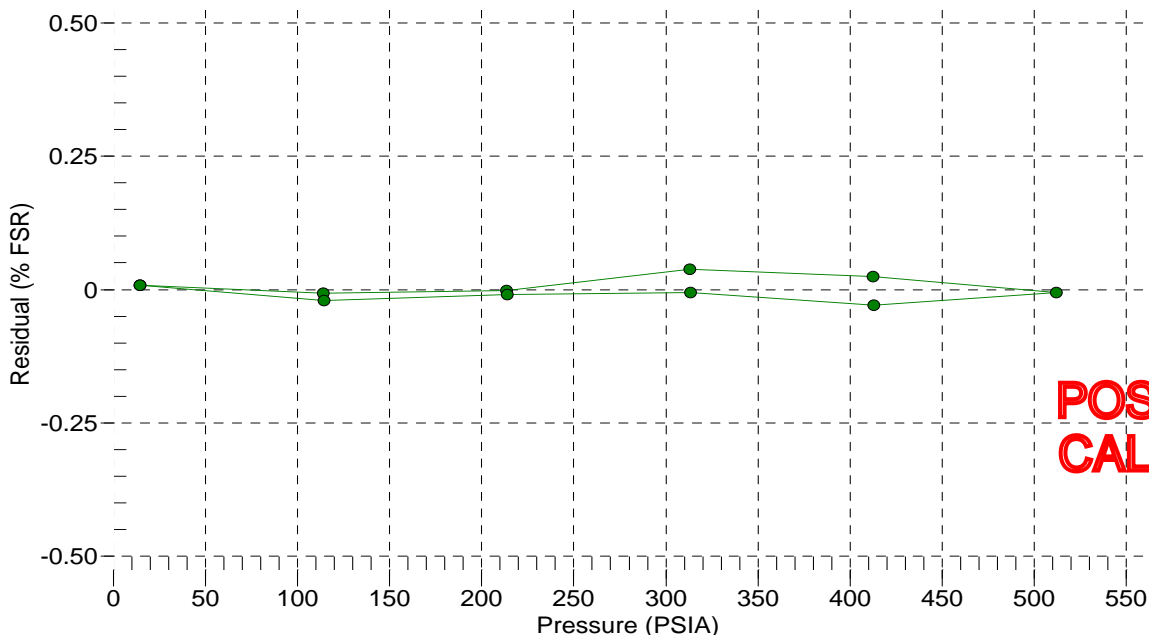
n = x \* PTCB0 / (PTCB0 + PTCB1 \* t + PTCB2 \* t<sup>2</sup>)

pressure (PSIA) = PA0 + PA1 \* n + PA2 \* n<sup>2</sup>

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

Date, Offset (%FSR)

● 01-Dec-22 0.00



**POST CRUISE  
CALIBRATION**