

SEA-BIRD
SCIENTIFIC

Sea-Bird Scientific
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Pressure Test Certificate

Test Date: 2019-08-22

Description: SBE-37 Microcat

Sensor Information:

Model Number: SBE-37

Serial Number: 21147

Pressure Test Protocol:

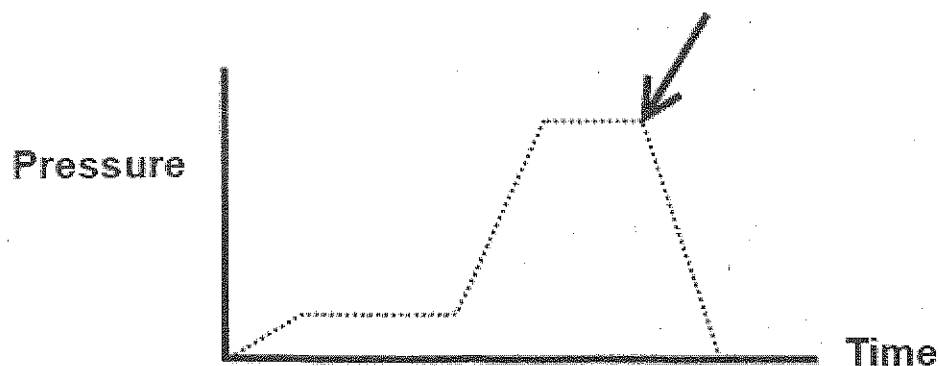
Low Pressure Test: 40 PSI Held For: 15 Minutes

High Pressure Test: 2900 PSI Held For: 15 Minutes

Passed Test: True

Tested By: db

High pressure is
generally equal
to the maximum
depth rating of
the instrument



Typical Test Profile



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SENSOR SERIAL NUMBER: 2323
CALIBRATION DATE: 21-Aug-19

SBE 63 OXYGEN TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

TA0 = 6.936808e-004 TA2 = 4.423240e-007
TA1 = 2.537487e-004 TA3 = 1.080230e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT(V)	INST TEMP (° C)	RESIDUAL (° C)
2.0000	1.11609	2.0000	-0.00005
2.0000	1.11609	2.0000	-0.00005
2.0000	1.11608	2.0003	0.00026
2.0002	1.11609	2.0000	-0.00025
5.9998	0.99198	5.9999	0.00008
6.0000	0.99197	6.0002	0.00021
6.0001	0.99198	5.9999	-0.00022
6.0001	0.99197	6.0002	0.00011
11.9999	0.82634	11.9996	-0.00032
11.9999	0.82633	12.0000	0.00007
12.0001	0.82633	12.0000	-0.00013
12.0001	0.82632	12.0004	0.00026
20.0000	0.64300	20.0002	0.00021
20.0001	0.64301	19.9997	-0.00038
20.0001	0.64300	20.0002	0.00011
20.0002	0.64300	20.0002	0.00001
25.9998	0.53128	26.0000	0.00022
26.0000	0.53128	26.0000	0.00002
26.0000	0.53128	26.0000	0.00002
26.0001	0.53128	26.0000	-0.00008
29.9999	0.46765	29.9995	-0.00035
30.0001	0.46764	30.0002	0.00012
30.0001	0.46764	30.0002	0.00012
30.0002	0.46764	30.0002	0.00002

V = Instrument Output (Volts)

$L = \ln(100000 * V / (3.3 - V))$

Temperature ITS-90 (°C) = $1 / (TA0 + (TA1 * L) + (TA2 * L^2) + (TA3 * L^3)) - 273.15$

Residual (°C) = instrument temperature - bath temperature

Date, Offset (mdeg C)

● 21-Aug-19 -0.00

