

SBE 19 PLUS 5150 – 4 sett 2013-

Conducibility – Temperature

PointN	Temp	T90	Cond	T	T raw	C	C raw	T 90 err	C err
1	29.7712	29.76406	58.4544	29.7634	204555	58.455	6688.713	-0.0007	0.001
2	27.0361	27.02961	55.5475	27.0288	228564	55.54	6545.395	-0.001	-0.008
3	24.0886	24.08282	52.4473	24.0824	257172	52.4393	6389.352	0.000	-0.008
4	21.0512	21.04615	49.3005	21.0446	289881	49.2924	6226.87	-0.002	-0.008
5	18.0763	18.07196	46.2725	18.0705	325368	46.265	6066.25	-0.001	-0.008
6	15.0149	15.0113	43.2152	15.0083	365755	43.2077	5899.59	-0.003	-0.008
7	12.1781	12.17518	40.4407	12.1717	406923	40.4336	5744.082	-0.003	-0.007
8	9.05206	9.049888	37.4538	9.0471	456674	37.4479	5571.685	-0.003	-0.006

Temp	bath temperature	T raw	Measured temperature [counts]
T90	bath temperature (T90)	C raw	Measured Conducibility [counts]
Cond	bath conductivity	T	Measured Temperature [T90]
		C	Measured Conducibility
		T 90 err	Measured Temperature – bath temperature
		C err	measured Conducibility – bath conductivity

Pressure

A verification of pressure measurements with respect to external known values was performed as described in the table:

External Pressure [dbar]	Pressure [dbar]	Sigma [dbar]	P-P_0 [dbar]	Sigma (P-P_0) [dbar]	Residual [dbar]	Residual / Sigma (P-P_0)
0	11.647	0.038				
50	61.3963	0.057	49.7493	0.069	-0.251	3
100	111.665	0.054	100.018	0.066	0.018	0
150	161.681	0.041	150.034	0.056	0.034	0
200	211.707	0.046	200.06	0.060	0.060	1
250	261.717	0.054	250.07	0.066	0.070	1
500	511.535	0.126	499.888	0.132	-0.112	0
1000	1010.96	0.363	999.313	0.365	-0.687	1

Sigma = std of pressure device data (estimated error on device measurements)

P0=measured pressure with external pressure equal to 0 (offset): (11.647+- 0.038) dbar

Residual= External Pressure – Pressure (P-P0, measured by device)

Sigma (P-P0) = estimated error (uncertainty) on (P-P0)