

PSA file: D:\CTD\programfiles\524_D80_0444c.psa

Date: 05/22/2013

Instrument configuration file: D:\CTD\raw\EN524_0444d_NoPS.xmlcon

Configuration report for SBE 911plus/917plus CTD

Frequency channels suppressed : 0
Voltage words suppressed : 0
Computer interface : RS-232C
Deck unit : SBE11plus Firmware Version >= 5.0
Scans to average : 1
NMEA position data added : Yes
NMEA depth data added : No
NMEA time added : No
NMEA device connected to : deck unit
Surface PAR voltage added : Yes
Scan time added : No

1) Frequency 0, Temperature

Serial number : 4695
Calibrated on : 28-Feb-13
G : 4.39687326e-003
H : 6.43667692e-004
I : 2.15480263e-005
J : 1.76777103e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

2) Frequency 1, Conductivity

Serial number : 1446
Calibrated on : 16-Jan-13
G : -4.07373492e+000
H : 5.40141309e-001
I : 2.28357730e-004
J : 1.49667048e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

3) Frequency 2, Pressure, Digiquartz with TC

Serial number : 0444
Calibrated on : 30-Mar-12
C1 : -5.378517e+004
C2 : -3.498580e-001
C3 : 1.648580e-002

D1 : 4.036100e-002
D2 : 0.000000e+000
T1 : 2.984744e+001
T2 : -3.538190e-004
T3 : 3.972770e-006
T4 : 2.922330e-009
T5 : 0.000000e+000
Slope : 0.99984127
Offset : -0.68000
AD590M : 1.125800e-002
AD590B : -8.763490e+000

4) Frequency 3, Temperature, 2

Serial number : 2034
Calibrated on : 16-Jan-13
G : 4.38894736e-003
H : 6.44370331e-004
I : 2.23966927e-005
J : 1.95995465e-006
F0 : 1000.000
Slope : 1.00000000
Offset : 0.0000

5) Frequency 4, Conductivity, 2

Serial number : 3220
Calibrated on : 16-Jan-13
G : -1.03772289e+001
H : 1.42644641e+000
I : 2.30262514e-004
J : 5.28842599e-005
CTcor : 3.2500e-006
CPcor : -9.57000000e-008
Slope : 1.00000000
Offset : 0.00000

6) A/D voltage 0, Transmissometer, WET Labs C-Star

Serial number : 593DR
Calibrated on : 05-Feb-13
M : 19.7004
B : -1.1072
Path length : 0.250

7) A/D voltage 1, Fluorometer, WET Labs ECO-AFL/FL

Serial number : 478
Calibrated on : 22-Jan-13
Dark output : 0.0160
Scale factor : 2.60000000e+001

8) A/D voltage 2, Altimeter

Serial number : 1017
Calibrated on : 24-Apr-13deck
Scale factor : 14.755
Offset : 0.000

9) A/D voltage 3, Free

10) A/D voltage 4, Oxygen, SBE 43

Serial number : 0345
Calibrated on : 16-Feb-13
Equation : Sea-Bird
Soc : 5.34790e-001
Offset : -5.01200e-001
A : -2.82940e-003
B : 1.17460e-004
C : -2.07110e-006
E : 3.60000e-002
Tau20 : 1.46000e+000
D1 : 1.92634e-004
D2 : -4.64803e-002
H1 : -3.30000e-002
H2 : 5.00000e+003
H3 : 1.45000e+003

11) A/D voltage 5, Oxygen, SBE 43, 2

Serial number : 1648
Calibrated on : 16-Jan-13
Equation : Sea-Bird
Soc : 5.83510e-001
Offset : -5.00900e-001
A : -2.73970e-003
B : 9.84410e-005
C : -2.21180e-006
E : 3.60000e-002
Tau20 : 1.65000e+000
D1 : 1.92634e-004
D2 : -4.64803e-002
H1 : -3.30000e-002
H2 : 5.00000e+003
H3 : 1.45000e+003

12) A/D voltage 6, Free

13) A/D voltage 7, Free

14) SPAR voltage, Unavailable

15) SPAR voltage, SPAR/Surface Irradiance

Serial number : 20121
Calibrated on : 13-Apr-12
Conversion factor : 1640.98000000

Ratio multiplier : 1.00000000

Scan length : 40

Pump Control

This setting is only applicable to a custom build of the SBE 9plus.

Enable pump on / pump off commands: NO

Data Acquisition:

Archive data: YES

Delay archiving: NO

Data archive: D:\CTD\raw\EN524_event12.hex

Timeout (seconds) at startup: 20

Timeout (seconds) between scans: 20

Instrument port configuration:

Port = COM1

Baud rate = 19200

Parity = N

Data bits = 8

Stop bits = 1

Water Sampler Data:

Water Sampler Type: SBE Carousel

Number of bottles: 24

Port: COM2

Enable remote firing: NO

Firing sequence: Table driven

Fire order Bottle position:

| | |
|----|----|
| 1 | 1 |
| 2 | 3 |
| 3 | 5 |
| 4 | 7 |
| 5 | 9 |
| 6 | 11 |
| 7 | 13 |
| 8 | 16 |
| 9 | 17 |
| 10 | 19 |
| 11 | 21 |
| 12 | 23 |
| 13 | 2 |
| 14 | 4 |
| 15 | 6 |
| 16 | 8 |
| 17 | 10 |
| 18 | 12 |
| 19 | 14 |
| 20 | 15 |
| 21 | 18 |
| 22 | 20 |
| 23 | 22 |
| 24 | 24 |

Tone for bottle fire confirmation uses PC sound card.

Header information:

Header Choice = Prompt for Header Information

prompt 0 = Vessel: RV Endeavor

prompt 1 = Cruise: EN524

prompt 2 = Chief Scientist: Joan Bernhard

prompt 3 = Station:

TCP/IP - port numbers:

Data acquisition:

Data port: 49163

Status port: 49165

Command port: 49164

Remote bottle firing:

Command port: 49167

Status port: 49168

Remote data publishing:

Converted data port: 49161

Raw data port: 49160

Miscellaneous data for calculations

Depth and Average Sound Velocity

Latitude when NMEA is not available: 41.50000000

Average Sound Velocity

Minimum pressure [db]: 20.00000000

Minimum salinity [psu]: 20.00000000

Pressure window size [db]: 20.00000000

Time window size [s]: 60.00000000

Descent and Acceleration

Window size [s]: 2.00000000

Plume Anomaly

Theta-B: 0.00000000

Salinity-B: 0.00000000

Theta-Z / Salinity-Z: 0.00000000

Reference pressure [db]: 0.00000000

Oxygen

Window size [s]: 2.00000000

Apply hysteresis correction: 1

Apply Tau correction: 1

Potential Temperature Anomaly

A0: 0.00000000

A1: 0.00000000

A1 Multiplier: Salinity

Serial Data Output:

Output data to serial port: NO

Mark Variables:

Variables:

Digits Variable Name [units]

0 Scan Count

4 Pressure, Digiquartz [db]

5 Temperature [ITS-90, deg C]

5 Temperature, 2 [ITS-90, deg C]
7 Conductivity [S/m]
7 Conductivity, 2 [S/m]
5 Salinity, Practical [PSU]
5 Salinity, Practical, 2 [PSU]
5 Voltage 0
5 Voltage 2
5 Voltage 4
5 Voltage 5
5 Voltage 7

Shared File Output:

Output data to shared file: NO

TCP/IP Output:

Raw data:

Output raw data to socket: NO
XML wrapper and settings: NO
Seconds between raw data updates: 0.00000000

Converted data:

Output converted data to socket: NO
XML format: NO

SBE 11plus Deck Unit Alarms

Enable minimum pressure alarm: NO
Enable maximum pressure alarm: NO
Enable altimeter alarm: YES
Set point: 18.00000000
Hysteresis: 0.00000000
Minimum pressure: 1000.00000000

SBE 14 Remote Display

Enable SBE 14 Remote Display: YES
Seconds between updates: 1.00000000
Com port: COM4
Data type: depth
Depth type: Salt water
Enable minimum pressure alarm: NO
Enable maximum pressure alarm: NO
Enable altimeter alarm: NO
Enable bottom contact alarm: NO

PC Alarms

Enable minimum pressure alarm: NO
Enable maximum pressure alarm: NO
Enable altimeter alarm: YES
Set point: 20.00000000
Hysteresis: 0.00000000
Minimum pressure: 1000.00000000
Enable bottom contact alarm: NO
Alarm uses PC internal speakers.

Options:

Prompt to save program setup changes: YES

Automatically save program setup changes on exit: NO
Confirm instrument configuration change: YES
Confirm display setup changes: YES
Confirm output file overwrite: YES
Check scan length: YES
Compare serial numbers: YES
Maximized plot may cover Seasave: NO