

# SBE 11plus V2 DECK UNIT

*For use with the SBE 9plus CTD*



**Serial Number: 11P5745-0244**

**User Manual, Version 014**

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Sea-Bird Electronics, Inc.  
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# **SBE 11plus DECK UNIT OPERATING AND REPAIR MANUAL**

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## LIMITED LIABILITY STATEMENT

Extreme care should be exercised when using or servicing this equipment. It should be used or serviced only by personnel with knowledge of and training in the use and maintenance of oceanographic electronic equipment.

SEA-BIRD ELECTRONICS, INC. disclaims all product liability risks arising from the use or servicing of this system. SEA-BIRD ELECTRONICS, INC. has no way of controlling the use of this equipment or of choosing the personnel to operate it, and therefore cannot take steps to comply with laws pertaining to product liability, including laws which impose a duty to warn the user of any dangers involved in operating this equipment. Therefore, acceptance of this system by the customer shall be conclusively deemed to include a covenant by the customer to defend, indemnify, and hold SEA-BIRD ELECTRONICS, INC. harmless from all product liability claims arising from the use of servicing of this system.

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

## DECLARATION OF CONFORMITY

**Manufacturer's Name:** Sea-Bird Electronics  
**Manufacturer's Address:** 13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005, USA

**The Authorized Representative located within the Community is:**  
OTT MESSTECHNIK GmbH & Co.KG  
P.O.Box: 2140 / 87411 Kempten / Germany  
Ludwigstrasse 16 / 87437 Kempten  
Internet: <http://www.ott.com>  
Phone: +49 831 5617 – 100  
Fax: +49 831 5617 - 209

**Device Description:** Various Data Acquisition Devices and Sensors

**Model Numbers:**

3S	3F	3plus	4C	4M	5T	5P	5M	7	8	9plus	11plus
14	16plus V2		16plus-IM V2		17plus V2		18	19plus V2		21	26plus
27	29	32	32C	32SC	33	35	35RT	36	37-IMP	37-IM	37-SMP
37-SM	37-SIP	37-SI	38	39	39-IM	41	41CP	43	43F	44	45
49	50	52-MP	53BPR		54	55	SIM	ICC	IMM	PDIM	AFM
90488	90204	90402	90504		NiMH Battery Charger and Battery Pack						

**Applicable EU Directives:** Machinery Directive 98 / 37 /EC  
EMC Directive 2004 / 108 /EC  
Low Voltage Directive (73 / 23 /EEC) as amended by (93 / 68 /EEC)

**Applicable Harmonized Standards:**

EN 61326-1:2006 Class A Electrical Equipment for Measurement, Control, and Laboratory Use, EMC Requirement – Part 1: General Requirements  
(EN 55011:2007 Group 1, Class A)

EN 61010-1:2001, Safety Requirements for Electrical Equipments for Measurement, Control, and Laboratory Use – Part 1: General Requirements

Declaration based upon compliance to the Essential Requirements and Letter of Opinion from CKC Certification Services, LLC., Notified Body 0976

I, the undersigned, hereby declare that the equipment specified above conforms to the above European Union Directives and Standards.

Authorized Signature:



Name: John Backes

Title of Signatory: Vice President

Date: 27 January 2010

Place: Bellevue, WA

# SYSTEM CONFIGURATION

18 May 2011

SBE 11plus CTD Deck Unit	<b>S/N 11P5745-0244</b>
AC Supply Voltage	<b>115/230 VAC / 50-400 Hz</b>
Sea Cable Voltage	<b>250 VDC</b>
Receiver Board Microcontroller Version	<b>2.1</b>
Remote Output EPROM Version	<b>1.0</b>
Primary Conductivity Advance - Factory Setting	<b>0.073 seconds</b>
Secondary Conductivity Advance - Factory Setting	<b>0.073 seconds</b>

Bottom Contact Alarm installed

Surface PAR Interface and Connector Installed

NMEA 0183 GPS Navigation Interface Installed

Remote Output Interface and Connector Installed

## **BAUD RATES:**

SBE 11plus CTD Data	<b>19,200</b>
SBE 11plus Duplex Modem	<b>300</b>
SBE 11plus NMEA Interface	<b>4800</b>
SBE 11plus Remote Output	<b>9600</b>