

***p*(CO₂) Air-Sea Instruments
Section Tables L-1 and L-2 in Word**

**Table L-1
Compliance Matrix for *p* (CO₂) Air-Sea Instruments**

Spec I.D.	Parameter	Units	Parameter Value	Substantiation	Verification Approach
PCO2-001	Minimum Value	Partial pressure of carbon dioxide (µatm)			
PCO2-002	Maximum Value	µatm			
PCO2-003	Accuracy	µatm			
PCO2-004	Precision	±µatm			
PCO2-005	Sampling rate	samples/hr			
OPER-001	Operational salinity range	PSU			
OPER-002	Operational temperature range	° C			
OPER-003	Air-sea measurement range	° C			
OPER-004	Biofouling mitigation methods	Yes/No (Describe)			
OPER-005	Remain operational after icing	Yes/No			
OPER-006	Maintain calibration over deployment interval	Yes/No			
OPER-007	Maximum deployment interval	Months			
MECH-001	Corrosion resistant	Yes/No (Describe)			
MECH-002	Depth survivable immersion (seawater)	M			
ELEC-001	Regain normal operation after being depowered and repowered	Yes/No			
ELEC-002	Electrical isolation from seawater	Megaohms			
DATA-001	Size of non-volatile data storage	MB, GB, TB			
DATA-002	Internally stores calibration and sensors serial numbers	Yes/No			
SOFT-001	Capable of emulating break by software character sequence	Yes/No			
INTF-001	Instrument capable of connection to the platform controller for power	Yes/No			
INTF-002	Operational supply voltage	VDC			

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INTF-003	Time-stamping/latency capabilities for data sampling and output	Describe			
INTF-004	Internal clock	Yes/No			
INTF-005	Time synchronization capable	Yes/No			
INTF-006	Maximum settable baud rate (serial interface)	Baud			
INTF-007	Ethernet interface with auto-discovery mechanism	Yes/No			
INTF-008	Communication Protocol (ie: Ethernet, RS-422, RS-285, RS-232)	Type			
INTF-009	Capable of remote access and control	Yes/No			
INTF-010	Stored data remotely accessible	Yes/No			
INTF-011	Supports remote firmware installation	Yes/No			
INTF-012	Capable of polled and asynchronous mode operation	Yes/No			
INTF-013	Includes OOI standard connector	Yes/No			
COMP-001	Compatible with national and international standards	Yes/No			
SHIP-001	Reusable transportation case	Yes/No			
SHIP-002	Shipping case fits within ISO shipping container	Yes/No			
SHIP-003	Instruments in their transportation survive shipping conditions defined by ASTM D4169, level 1.	Yes/No			
SHIP-004	Storage temperature range	Degrees C			
SHIP-005	Shipping cases with external labels addressing safe handling	Yes/No			
IDNT-001	Indelibly marked on an exterior with part numbers	Yes/No			

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QUAL-001	Manufactured in accordance with the manufacturer's best practices	Yes/No			
QUAL-002	Certificate of compliance provided	Yes/No			
QUAL-003	Materials chosen and treated to reduce wear, corrosion and deterioration	Yes/No Explain			
QUAL-004	First Article Testing (FAT) report delivered with each first article unit	Yes/No			

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Table L-2
Proposed Instrument Model

Instrument Type	Specification	Contractor Instrument Make and Model Number or Designation
<i>p</i> (CO ₂)	Version 2-01 Document Control Number 3305-00006 dated February 9, 2011	