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SAMI² pH Validation Certificate

November 13, 2024

Serial Number:

P0163

RMA Number:

785

Technician:

BW

Reagent:

1405

Table 1: SAMI² pH E-values.

•	Ea ₄₃₄	Eb ₄₃₄	Ea_{578}	Eb ₅₇₈
•	19168.0	2546.0	111.0	41962.0

Validation Notes

Tris Batch: 090924

 $\Delta\,\mathrm{T}=0.10\,\mathrm{^{\circ}C}$

Tris Bottle: 5

N = 8

Validation Temp: 24.90 °C

 $\Delta \, \text{pH} = 0.0018 \pm 0.0007$

Build Notes

Pressure Test: 200 psi – Passed

Modifications:

standard refurb

IR testing

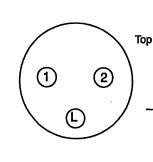
replaced bad z cell

INSULATION RESISTANCE TEST: OOI - UW/OSU UNITS

Communications and Power - Ti Bulkhead

(a) (b) (1) (3) (6) (2)

Top view of MCBH(WB)-FS-6-TI			
	Switch		
Pin	Connection	L	R
1	GND (pwr)	1	0
2	Rx (SÄMI)	2	0
3	Tx (SAMI)	3	0
4	V+ (PWR)	4	0
5	RTS	0	1
6	GND (com)	0	2
,	•	·	



Pump		
Bulk	head	
view of	MCBH(WB)-FS-2-TI	

	_		Switch	
Pin	Connection	L	R	
1 2 L	GND PWR + Locate	0	3 4	

- 1. Plug test cable(s) into SAMI bulkhead(s) and immerse unit past bulkhead connection. Allow to soak for at least 2 hours.
- 2. Plug anode into Common on Fluke 1507. Black jumper connects 'Insulation' to box banana receptacle.
- 3. Set Fluke 1507 to 50V range and proceed to test each switch position in table below by pressing the 'Test' button. Hold 'Test' button until reading stabilizes. Record the insulation resistance value in table. Note that one of the switches is zero in each condition.
- 4. If out of spec (<10 M Ω), contact customer w/r/t replacement of suspected parts (typically penetrator, bulkhead or biofouling cable).
- 5. Replace suspected part and re-test if needed.

Conne ction	Left switch	Right switch	Resistance (MegaOhms)	Re-Test-Resistance (MegaOhms)
GND	1	0	55	155
Rx	2	0	1	
Tx	3	0		÷ v
V+	4	0		
RTS	0	1		
GND	0	2		+
GND - Pump	0	3	X	\mathcal{N}
V+ - Pump	0	4	\nearrow	

UNIT # <u>P163</u>
DATE <u>1/-/4-24</u>

Technician Signature

Notes:

Sunburst SAMI Service Report

SAMI Type: PHSEN-A

Serial number: PO163

AT number: ATAPL- 58337 - 00013

Service date: 11 /0/24

Remaining reagent amount: ~95% /59449

Incoming observations/remarks:

* Very dear overall. Struggle to download data, epoloted firmware

Repairs/Replacements made:

New flow well



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3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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