

SECN Coastal Water Quality Monitoring
Datasonde Datasheet v1.42 (11/2019)—DEPLOYMENT

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) ELSA
Calibration Date 2/22/22 Calibrated By Vincent McLure
Battery Voltage Pre-Calibration 2.64 Battery Voltage >5.3 Y N Battery Voltage Post-Calibration 2.58
Central Wiper Replaced Y N Central Wiper Parking 180° Y N
Barometric Pressure (mmHg) 766.9 Conductivity Cell Constant .46869 ODO Gain 1.016
pH7 (mv) pH10 (mv) pH4 (mv)(check) pH Slope

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>21.49</u>	<u>50000</u>	<u>0.00</u>	<u>100.0</u>	<u>9.0</u>		
Measured	<u>21.65</u>	<u>49.962</u>	<u>0.00</u>	<u>101.0</u>	<u>7.98</u>		
Calibrated		<u>50.000</u>	<u>0.00</u>	<u>100.9</u>	<u>—</u>		

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PC Low (µg/l)	BGA-PC High (µg/l)
Standard							
Measured							
Calibrated							

Deployment

Deployed By: Kim Appleby & Vincent McLure File Name: CC02222022
Sonde Start Date: 2/22/22 Sonde Start Time: 1610 1545 (Station name _YYYYMMDD) Eastern Standard Time (EST)
Actual Deployment Date: 2/22/22 Actual Time Placed in Water: 1545 1635 (EST)

Comments:

Site Observations: Fish Kill ☐ Algal Bloom ☐ Debris ☐ Hurricane / Tropical Storm ☐ Other ☐

Observation Description:

Recorded By: Kim Appleby Computer Entry By / Date:

Certified By / Date:

SECN Coastal Water Quality Monitoring
YSI Datasonde Datasheet v1.42 (11/2019)— RETRIEVAL

Station Name
TIMUclap02

Retrieval

In situ Sonde # (SN)

ELSA

Retrieved By

Kim Appleby or Vincent McClure

Retrieval Date

3/8/22

Retrieval Time

1041 (EST)

Field Meter # (SN)

Gveillerno

Field Meter Calibration Date

3/7/22

On Site Readings

	Temp (°C)	Baro. Pres. (mmHg)	ODO (% Sat.)	ODO (mg/l)	Sp. Cond. (mS/cm)	Salinity (psu)	pH	Turb. (FNU)	Depth (m)	Chla (µg/l)	BGA (µg/l)
Field Meter	<u>20.6</u>	<u>763.5</u>	<u>95.2</u>	<u>7.54</u>	<u>39.97</u>	<u>21.51</u>	<u>/</u>	<u>/</u>	<u>3.37</u>	<u>/</u>	<u>/</u>
In situ Sonde	<u>20.</u>	<u>763.5</u>	<u>98.6</u>	<u>7.01</u>	<u>34.454</u>	<u>21.69</u>	<u>/</u>	<u>/</u>	<u>3.43</u>	<u>-</u>	<u>-</u>

Fouling presence: Please record type of fouling **AND** amount (e.g. A, B, E, / H). Types A= Algae, B= Barnacles, C= Crabs, E= Eggs, F= Fish, O= Other, N= none, S = Sediment / Amount H=Heavy, M= Moderate, L= Light, N= None

Sonde/Guard: N External Screen: - Temp/Cond: N

ODO Probe: N pH Probe: - Turbidity: -

Post Deployment

Post Deployment Reading Date 3/8/22 Battery Voltage 2.46 Central Wiper Parking 180° D / N

Barometric Pressure (mmHg) 759.9 Conductivity Cell Constant 0.46869

pH7 (mv) / pH10 (mv) / pH Slope / pH4 (mv) /

Parameter	Temp (°C)	Sp. Cond. (mS/cm)	Depth (m)	ODO (% Sat.)	ODO (mg/l)	pH7	pH10
Standard	<u>21.10</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>8.8</u>	<u>/</u>	<u>/</u>
Measured (clean sensors)	<u>21.21</u>	<u>50.09</u>	<u>0.00</u>	<u>99.4</u>	<u>8.77</u>	<u>/</u>	<u>/</u>

Parameter	pH4 (check)	Turbidity Low (FNU)	Turbidity High (FNU)	Chl Low (µg/l)	Chl High (µg/l)	BGA-PE Low (µg/l)	BGA-PE High (µg/l)
Standard	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>
Measured (clean sensors)	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>	<u>/</u>

Any Probe Malfunctions?

Y / (N)

If Y, describe in the comments.

File Name:

602222022

(Station name _YYYYMMDD)

Comments:

Recorded By Kim Appleby Computer Entry By / Date _____

Certified By / Date _____

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID: ELSA

RQ-

Project: BMAP CLAPBOARD

- Notes: (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 2/3/22

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Vincent McElure	2/22/22	9:31	21.1	766.9	9.0	8.98	100.7	-	1.016	P/F	P/F
ICV		↓	9:32	21.1	766.9	9.0	8.98	101.0	-	1.016	P/F	P/F
CCV	Kim Appleby	3/8/22	14:52	21.5	759.8	8.8	8.77	99.4	-	1.016	P/F	L/F
CCV											P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Vincent McElure	2/22/22	9:36	210917C	09/2022	50000	49764	P/F	P/F
ICV	↓	↓	9:45	211122A	12/2022	15000	14954	P/F	P/F
CCV	Kim Appleby	3/8/22	15:00	210917C	9/2022	50000	50087	P/F	P/F
CCV								P/F	L/F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.				P/F	L/F
Calibr.						4.				P/F	L/F
Calibr.						10.				P/F	L/F
ICV										P/F	L/F
CCV										P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 , slope from 4 to 7 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 2/3/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: ; Date of last verification:

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Vincent McElure	2/22/22	9:52	0.00	0.00	P/F	P/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

Guillelmo

RQ-

Project:

Climbboard

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

2/3/22

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Vincent McClure	3/8/22	8:26	21.0	762.6	8.9	8.9	100.3	✓	.968	Ⓟ F	Ⓟ F
ICV			8:27	21.0	762.6	8.9	8.94	100.4	✓	.968	Ⓟ F	Ⓟ F
CCV	Kim Appleby	3/21/22	16:24	21.93	765.9	8.8	8.86	101.2	-	1.064	Ⓟ F	Ⓟ F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Explr. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Vincent McClure	3/8/22	8:32	210917C	09/22	50000	50000	Ⓟ F	Ⓟ F
ICV	↓	↓	8:35	211122A	12/22	15000	14894	Ⓟ F	Ⓟ F
CCV	Kim Appleby	3/21/22	16:26	210917C	9/22	50000	49908	Ⓟ F	Ⓟ F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Explr. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				P / F	L / F
ICV										P / F	L / F
CCV										P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: 2/3/22

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	Vincent McClure	3/8/22	8:42	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: