

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) Enihermo

Calibration Date

3/8/22

Calibrated By

Vincent McClure

Battery Voltage Pre-Calibration

2.35

Battery Voltage > 5.3

Y / N

Battery Voltage Post-Calibration

2.35

Central Wiper Replaced

Y / N

Central Wiper Parking 180°

Y / N

Barometric Pressure (mmHg)

762.6

Conductivity Cell Constant

0.465

ODO Gain

0.968

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>21.36</u>	<u>50000</u>	<u>0.00</u>	<u>100.0</u>	<u>8.90</u>	<u>/</u>	<u>/</u>
Measured	<u>21.51</u>	<u>50002</u>	<u>0.00</u>	<u>100.4</u>	<u>8.94</u>	<u>/</u>	<u>/</u>
Calibrated		<u>50000</u>	<u>0.00</u>	<u>100.3</u>	<u>/</u>	<u>/</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 McClure File Name:

R16638 16030822

(Station name _YYYYMMDD)

Sonde Start Date:

3/8/22

Sonde Start Time:

1145

Eastern Standard Time (EST)

Actual Deployment Date:

3/8/22

Actual Time Placed in Water:

1150

(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)

Guoillerwo

Retrieved By

Kim Appleby + Brian Davis

Retrieval Date

3/21/22

Retrieval Time

1400

(EST)

Field Meter # (SN)

ELSA

Field Meter Calibration Date

3/21/22

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	20.32	767.9	91.4	7.68	29.54	18.36	—	—	3.88	—	—
In situ Sonde	20.24	767.9	95.7	7.81	29.41	18.23	—	—	3.948	—	—

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: E External Screen: — Temp/Cond: E (on outside of sensor)

ODO Probe: E (on outside sensor) pH Probe: — Turbidity: —

Post Deployment

Post Deployment Reading Date

3/20/22

Battery Voltage

2.27

Central Wiper Parking 180°

☒ Y / ☐ N

Barometric Pressure (mmHg)

765.9

Conductivity Cell Constant

—

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		50.00		100.0 101.2	8.8	—	—
Measured (clean sensors)		49.91		101.2	8.86	—	—

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							
Measured (clean sensors)							

Any Probe Malfunctions?

Y / N

File Name:

6603082022

If Y, describe in the comments.

(Station name _YYYYMMDD)

Comments:

Temp and depth not recorded at post-cal.

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:

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 µmhos/cm	Meter Reading µmhos/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 ± 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 ± 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	Ⓟ F	Ⓟ F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, 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: L1LO

RQ:

Project: BMAP Lapboard

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 4/4/22

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.	Kim Appley	4/4/22	926	21.4	761.4	8.9	—	100.2	—	1.050	(P) F	(L) F
ICV			927	21.53	761.4	8.8	8.84	100.2	—	1.050	(P) F	(L) F
CCV	J Parrish	4/8/22	1305	21.03	759	8.9	8.78	98.7	—	—	(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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kim Appley	4/4/22	934	210917C	9/22	50,000	50,000	(P) F	(L) F
ICV			947	211122A	12/22	15,000	14,934	(P) F	(L) F
CCV	J Parrish	4/8/22	1310	210917C	9/22	50,000	50,082	(P) F	(L) 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: 3/10/22

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	Kim Appley	4/4/22	933	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: