

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 9AE

Calibration Date 7/7/2020

Calibrated By K. Appleby

Battery Voltage Pre-Calibration 12.4

Battery Voltage >5.3 ☒ Y / ☐ N

Battery Voltage Post-Calibration 12.4

Central Wiper Replaced ☒ Y / ☐ N

Central Wiper Parking 180° ☒ Y / ☐ N

Barometric Pressure (mmHg) 760.3

Conductivity Cell Constant 4.90235

ODO Gain 1.00646

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>25.49</u>	<u>50.00</u>	<u>0.00</u>	<u>100.0</u>	<u>8.1</u>		
Measured	<u>25.47</u>	<u>50.12</u>	<u>0.00</u>	<u>100.3</u>	<u>8.05</u>		
Calibrated		<u>50.00</u>	<u>0.00</u>	<u>100.2</u>	<u>8.06</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: R. Appleby / B. Davis

File Name: CC07072020
(Station name _YYYYMMDD)

Sonde Start Date: 7/7/2020

Sonde Start Time: 1145 Eastern Standard Time (EST)

Actual Deployment Date: 7/7/2020

Actual Time Placed in Water: 1131 (EST)

Comments:

high tide, partly cloudy, 90s

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)

126
~~JEAZ~~ 9AE

Retrieved By

K. Appleby & B. Davis

Retrieval Date

7/20/20

Retrieval Time

1305 (EST)

Field Meter # (SN)

JEAZ

Field Meter Calibration Date

7/20/20

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	31.38	762.7	82.7	5.32	39.32	25.06			3.19		
In situ Sonde	31.35	762.7	73.2	4.73	39.17	24.77			3.295		

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: 5/25 ^{low temp} _{sonde} External Screen: — Temp/Cond: N

ODO Probe: N pH Probe: — Turbidity: —

Post Deployment

Post Deployment Reading Date

7/20/20

Battery Voltage

11.1

Central Wiper Parking 180°

☒ N

Barometric Pressure (mmHg)

761.3

Conductivity Cell Constant

4.90235

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	23.99	50.00	0.000	100.0	8.4		
Measured (clean sensors)	24.13	50.16	-0.010	101.0	8.44		

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?

☒ N

If Y, describe in the comments.

File Name:

6607072020

(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: 9AE

RQ:

Project:

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

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.	K. Appleby	7/7/20	734	26.39	760.3	8.1	8.06	99.6	—	1.01	P/F	L/F
ICV	↓	↓	736	26.40	760.3	8.1	8.05	100.3	—	1.01	P/F	L/F
CCV	↓	7/20/20	1514	24.11	761.3	8.4	8.44	100.8	—	1.01	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.	K. Appleby	7/7/20	746	191025C	11/2020	50,000	50,000	P/F	L/F
ICV	↓	↓	750	191025B	11/2020	20,000	19,430	P/F	L/F
CCV	↓	↓	1515					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: _____

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	K. Appleby	7/7/20 807	807	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:

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: JEA2

RQ:

Project:

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

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 Appleby	7/20/20	934	23.81	762.7	8.5	8.46	100.3	-	1.03666	☒ F	☒ L / F
ICV	↓	7/20/20	935	23.82	762.7	8.5	8.46	100.2	-	1.03666	☒ F	☒ L / F
CCV											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 Appleby	7/20/20	949	1910 25C	11/20/20	50000	50000	☒ F	☒ L / F
ICV	↓	7/20/20	958	1910 25B	11/20/20	20000	19500	☒ F	☒ L / F
CCV								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: _____

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 Appleby	7/20/20	941	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: