

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

Station Name
TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) TEA2
Calibration Date 7/20/20 Calibrated By Kim Appleby
Battery Voltage Pre-Calibration 11.0 Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration 11.0
Central Wiper Replaced ☒ Y ☐ N Central Wiper Parking 180° ☒ Y ☐ N
Barometric Pressure (mmHg) 762.7 Conductivity Cell Constant 4.80259 ODO Gain 1.03666
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>23.87</u>	<u>50.00</u>	<u>0.000</u>	<u>100.0</u>	<u>8.5</u>		
Measured	<u>23.83</u>	<u>50.11</u>	<u>0.000</u>	<u>100.1</u>	<u>8.44</u>		
Calibrated		<u>50.00</u>	<u>0.000</u>	<u>100.3</u>	<u>8.46</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 + Brian Davis File Name: TIMUclap02-20200720 (Station name _YYYYMMDD)
Sonde Start Date: 7/20/20 Sonde Start Time: 1200 Eastern Standard Time (EST)
Actual Deployment Date: 7/20/20 Actual Time Placed in Water: 1206 (EST)

Comments:

90s, mostly sunny, incoming outgoing tide

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

Observation Description:

Recorded By: Kim Appleby Computer Entry By / Date: Kim Appleby 9/3/2020

Certified By / Date: _____

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

Station Name

TIMUclap02

Retrieval

In situ Sonde # (SN)

JE12

Retrieved By

K. Appleby / B. Davis

Retrieval Date

8/11/20

Retrieval Time

1317 (EST)

Field Meter # (SN)

94E

Field Meter Calibration Date

8/11/20

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	30.53	761.5	81.4	5.41	33.751	21.03	/	/	4.00	/	/
In situ Sonde	30.53	761.5	69.1	4.54	34.78	21.73	/	/	4.097	/	/

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: AA External Screen: N Temp/Cond: H A

ODO Probe: AA pH Probe: / Turbidity: /

Post Deployment

Post Deployment Reading Date

8/11/20

Battery Voltage

10.8
12.3

Central Wiper Parking 180°

(X) N

Barometric Pressure (mmHg)

761.7

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	24.53	50.0	0.000	100.0	8.4	/	/
Measured (clean sensors)	24.46	50.54	-0.006	99.2	8.28	/	/

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)

If Y, describe in the comments.

File Name:

TIMUclap02_2020072020

(Station name_YYYYMMDD)

Comments: Light Algae on outside of DO probe but not on sensor

Recorded By Kim Appleby

Computer Entry By / Date Kim Appleby 9/3/2020

Certified By / Date

Used as "field meter" on 7/20/20

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: SEA2

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	-	1.0366	☒ F	☒ F
ICV	↓	7/20/20	935	23.82	762.7	8.5	8.46 ^{8.44}	100.1 ^{100.2}	-	1.0366	☒ F	☒ F
CCV	↓	8/1/20	1525	24.46	761.7			99.2	1	1.0366	☒ 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 #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Kim Appleby	7/20/20	949	191025L	11/20/20	50000	50000	☒ F	☒ F
ICV	↓	7/20/20	958	191025B	11/20/20	20000	19500 ¹⁹⁵⁰⁰	☒ F	☒ F
CCV	↓	8/1/20	1528	191025L	11/20/20	50000	50,540	☒ F	☒ 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 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 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:

Used as "field meter" on 8/11/20

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:

- 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.	Kimberly Appleby	8/11/20	1120	23.99	761.5	8.4	8.40	99.8	—	1.00775	(P) F	(X) F
ICV	↓	↓	1122	24.0	761.5	8.4	8.45	100.4	—	1.00775	(P) F	(X) F
CCV	↓	9/1/20	1215	24.89	761.5	8.30	8.40	101.8	—	1.00775	(P) F	(X) F
CCV					760.6						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	8/11/20	1135	191025L	11/2020	50000	50000	(P) F	(X) F
ICV	↓	↓	1137	191025B	11/2020	20000	19460	(P) F	(X) F
CCV	↓	9/1/20	1220	191025L	11/2020	50000	49,790	(P) F	(X) 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 $\pm$ 50; mV pH 4 Range $\pm 180 \pm 50$; 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	8/11/20	1140	0.00	0.00	(P) F	(X) F

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

COMMENTS: