

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 610  
 Calibration Date 10/9/23 Calibrated By KVillings  
 Battery Voltage Pre-Calibration 2.66 Battery Voltage >5.3 ☒ Y ☐ N Battery Voltage Post-Calibration 2.61  
 Central Wiper Replaced ☒ Y ☐ N Central Wiper Parking 180° ☒ Y ☐ N  
 Barometric Pressure (mmHg) 760.5 Conductivity Cell Constant 0.467 ODO Gain 1.049  
 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>21.58</u>  | <u>50.000</u>     | <u>0.000</u> | <u>100.0</u> | <u>8.9</u>  |     |      |
| Measured   | <u>21.576</u> | <u>49.997</u>     | <u>0.000</u> | <u>100.1</u> | <u>8.84</u> |     |      |
| Calibrated |               | <u>50.000</u>     | <u>0.000</u> | <u>100.1</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: KVillings, Katie Halbach File Name: CC10092023  
 (Station name \_YYYYMMDD)  
 Sonde Start Date: 10/9/23 Sonde Start Time: 1045 Eastern Standard Time (EST)  
 Actual Deployment Date: 10/9/23 Actual Time Placed In Water: 1042 (EST)

Comments:

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

Observation Description:

Recorded By: KVillings 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)

1110

Retrieved By

Kullings/Hayke Brown

Retrieval Date

11/6/23

Retrieval Time

1138 (EST)

Field Meter # (SN)

ELSA

Field Meter Calibration Date

11/6/23

**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   | 20.7      | 763.7              | 87.2         | 6.65       | 43.5              | 27.73          | X  | X           | 3.977     | X           | X          |
| In situ Sonde | 20.68     | 763.7              | 87.0         | 6.63       | 43.25             | 27.91          | X  | X           | 4.110     | X           | X          |

**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: C, A, B, O External Screen: \_\_\_\_\_ Temp/Cond: \_\_\_\_\_

ODO Probe: \_\_\_\_\_ pH Probe: \_\_\_\_\_ Turbidity: \_\_\_\_\_

**Post Deployment**

Post Deployment Reading Date

11/6/23

Battery Voltage

2.45

Central Wiper Parking 180°

☒ Y ☐ N

Barometric Pressure (mmHg)

761.4

Conductivity Cell Constant

0.467

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                 | 22.43     | 50.000            | 0.000     | 100.0        | 8.6        | X   | X    |
| Measured (clean sensors) | 22.3      | 49.717            | 0.000     | 99.6         | 8.58       | X   | X    |

  

| 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:

CC10092023

(Station name \_YYYYMMDD)

Comments:

Recorded By

Kullings

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: 710

RQ: —

Project: BMAPCM

Clipboard

- 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 9/8/23

| 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.            | <u>KVillings</u> | <u>10/9/23</u> | <u>848</u>  | <u>21.4</u>  | <u>760.5</u>    | <u>8.9</u>      | <u>—</u>        | <u>100.1</u> | <u>—</u>     | <u>1.049</u> | <u>(P) F</u> | <u>(L) F</u> |
| ICV                |                  |                | <u>850</u>  | <u>21.46</u> | <u>760.5</u>    | <u>8.8</u>      | <u>8.84</u>     | <u>100.1</u> | <u>—</u>     | <u>1.049</u> | <u>(P) F</u> | <u>(L) F</u> |
| CCV                |                  | <u>11/6/23</u> | <u>1548</u> | <u>22.8</u>  | <u>761.4</u>    | <u>8.6</u>      | <u>8.58</u>     | <u>99.6</u>  | <u>—</u>     | <u>1.049</u> | <u>(P) F</u> | <u>(L) F</u> |
| CCV                |                  |                |             |              |                 |                 |                 |              |              |              | <u>P / F</u> | <u>L / F</u> |

DO Acceptance criteria from Table  $\pm 0.3$  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 $\mu$ mhos/cm | Meter Reading $\mu$ mhos/cm | Pass / Fail  | Lab / Field  |
|---------------------|------------------|----------------|-------------|-------------------|-------------|------------------------|-----------------------------|--------------|--------------|
| Calibr.             | <u>KVillings</u> | <u>10/9/23</u> | <u>852</u>  | <u>230131C</u>    | <u>2/24</u> | <u>50000</u>           | <u>50000</u>                | <u>(P) F</u> | <u>(L) F</u> |
| ICV                 |                  |                | <u>856</u>  | <u>230131D</u>    | <u>2/24</u> | <u>15000</u>           | <u>14983</u>                | <u>(P) F</u> | <u>(L) F</u> |
| CCV                 |                  | <u>11/6/23</u> | <u>1552</u> | <u>49.230131C</u> | <u>2/24</u> | <u>50000</u>           | <u>49717</u>                | <u>(P) F</u> | <u>(L) F</u> |
| CCV                 |                  |                |             |                   |             |                        |                             | <u>P / F</u> | <u>L / F</u> |

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.            |      |      |            |       |             | <u>7.</u>    |         |                  |    | <u>P / F</u> | <u>L / F</u> |
| Calibr.            |      |      |            |       |             | <u>4.</u>    |         |                  |    | <u>P / F</u> | <u>L / F</u> |
| Calibr.            |      |      |            |       |             | <u>10.</u>   |         |                  |    | <u>P / F</u> | <u>L / F</u> |
| ICV                |      |      |            |       |             |              |         |                  |    | <u>P / F</u> | <u>L / F</u> |
| CCV                |      |      |            |       |             |              |         |                  |    | <u>P / F</u> | <u>L / F</u> |
| CCV                |      |      |            |       |             |              |         |                  |    | <u>P / F</u> | <u>L / F</u> |

pH Acceptance criteria  $\pm 0.2$  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: 9/8/23

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                   | <u>KVillings</u> | <u>10/9/23</u> | <u>857</u> | <u>0.000</u>                              | <u>0.000</u>      | <u>(P) F</u> | <u>(L) F</u> |

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

COMMENTS: