

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

Station Name

TIMUclap02

Calibration / Pre-Deployment

Instrument (Sonde) # (SN) 102 ELSA

Calibration Date 5/17/22

Calibrated By Katon Villings

Battery Voltage Pre-Calibration 2.72

Battery Voltage >5.3 Y/N

Battery Voltage Post-Calibration 2.66

Central Wiper Replaced Y/N

Central Wiper Parking 180° Y/N

Barometric Pressure (mmHg) 760

Conductivity Cell Constant 0.4634

ODO Gain 1.071

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>22.27</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.9</u>		
Measured	<u>22.304</u>	<u>50.000</u>	<u>0.000</u>	<u>100.0</u>	<u>8.90</u>		
Calibrated		<u>50.000</u>	<u>0.000</u>	<u>99.9</u>	<u>8.9</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: K. Villings, B. Davis

File Name: CC05772022

(Station name_YYYYMMDD)

Sonde Start Date: 5/17/22

Sonde Start Time: 1000 (1100 water) Eastern Standard Time (EST)

Actual Deployment Date: 5/17/22

Actual Time Placed in Water: 958 (1058 water) (EST)

Comments:

Sunny

Tides: 1045 high, 1152 low

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

Observation Description:

Recorded By: _____

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)

Moel

Retrieved By

KV, RD

Retrieval Date

5/31/22

Retrieval Time

1210

(EST)

Field Meter # (SN)

L110

Field Meter Calibration Date

5/31/22

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	28.03	763.8	90.0	6.07	41.800	26.75			4.071		
In situ Sonde	28.06	763.8	89.9	6.06	41.711	26.67			4.247		

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:

A, C, E, B

External Screen:

X

Temp/Cond:

ODO Probe:

Moderate

pH Probe:

Turbidity:

Post Deployment

Post Deployment Reading Date

5/31/22

Battery Voltage

2.48

Central Wiper Parking 180°

Y / N

Barometric Pressure (mmHg)

762.1

Conductivity Cell Constant

0.4634

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	22.23	50.000	0.000	100.0	8.7		
Measured (clean sensors)	22.466	49.843	0.029	99.9	8.61		

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:

If Y, describe in the comments.

(Station name _YYYYMMDD)

Comments:

Recorded By

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: MOR

ELSA

RQ: BMAP

Project: 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 5/2/22

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.	Katrin Villinger	5/17/22	807	20.9	759.3	8.9	—	99.9	—	1.071	(P) F	(L) F
ICV			812	21.02	759.5	8.9	8.90	100.0	—	1.071	(P) F	(L) F
CCV		5/31/22	1452	22.75	762.1	8.7	8.61	99.9	—	1.071	(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. Villinger	5/17/22	820	210917C	9/22	56000	50000	(P) F	(L) F
ICV			833	21122A	12/22	15,000	14921	(P) F	(L) F
CCV		5/31/22	1457	210917C	9/22	50000	49843	(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.	K. Villinger	5/17/22				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: 5/3/22

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	K. Villinger	5/17/22	836	0.000	0.000	(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: