Water Quality Probes Quick Reference

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Please use this Quick Reference Guide as a supplement to your Water Quality Probes User Guide

Loading Manta Control PC Software (for Windows)
Download from the Solinst Eureka USB flash drive or from https://downloads.solinst.com/
(link also found under "Support" on the Solinst Eureka web page)
The USB flash drive also includes the Water Quality Probes User Guide

Connecting to Your Water Quality Probe

(1) Connect Your Data Cable to the USB to RS-232 Adapter
(2) Connect the other end of the Data Cable to the marine connector on the Probe
(3) Connect the USB Adapter cable to your PC
(4) Click on Manta Control Software to launch
(5) The Main Screen will open with scrolling real-time data
Note: Do not launch the Control Software before connecting the Probe

LED Lights (located on circuit board inside the Water Quality Probe - view through label opening)

- Green — Blinks every second when receiving adequate operating voltage via cable
  Note: It does not blink if being powered by its internal or external battery pack
- Red — Blinks 5 times upon power-up when logging is enabled
- Amber — Blinks when receiving RS-232 communications

Using the Manta Control Software

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click on the **PC** tab *ON Main Menu*

PC

Set scroll interval...	Sets the time interval that live data scrolls on the screen
Set snapshot location...	Create a file on your PC where your site data will be stored
Automatic snapshot...	Turn "ON" to capture continuous data in snapshot file location at set scroll interval
Graphing...	Generate on-screen graphs
Com ports...	Selects which COM port is connected to the Probe

click on the **Manta** tab *ON Main Menu*

Manta

Manage Manta files...	Access and manage log files stored in the Probe's memory
Logging setup...	Set logging frequency and name your log file
Call log...	Automatic stored log of all the calibrations in Probe's memory
Sensors and parameters list...	Selects and enables parameters
Calibrate...	Calibrate sensors - See reverse side for calibration table
Manta version...	Displays firmware version and Probe serial number
Create a custom parameter...	Setup custom sensor parameter
Delete a custom parameter...	Delete custom parameters

Note: For Trimeter probes, the USB to RS-232 Adapter and Data Cable are sold separately

For mantaMobile™ Users

Loading MantaLink™ Mobile App
See instructions included with your mantaMobile *Bluetooth®* device. Use the QR codes to download the App.

Download on the App Store

GET IT ON Google play

Manta Control Hot Buttons

Manta Logging is ON/Off	- Turns On/Off internal Logging
Capture One Line of Data to PC without Annotation	- Captures data snapshot to Active Snapshot File location
Capture One Line of Data to PC with Annotation	- Captures data snapshot with notes to Active Snapshot file location
Wipe One Cycle Now	- Activates one-time wipe if wiper is present
Clear Screen	- Clears data displayed on PC
Restart	- Restarts program

Calibration Table

Sensor	Standard Method of Calibration	Calibration Standards	Comments
Temperature	never requires calibrating	N/A	
pH	2 or 3 points	pH 4, pH 7, pH 10	pH7, pH 10 most common
ORP	1 point	ORP Standard 200 mV	
Conductivity	1 point	CD Standard, 0.5 Molar, 58670 Micro S CD Standard, 0.1 Molar, 12856 Micro S CD Standard, 0.01 Molar, 1412 Micro S CD Standard, 0.001 Molar,147 Micro S	brackish/saltwater borderline brackish typical freshwater very pure fresh/glacial
Reference Electrode	calibration not required	N/A	replace pH electrolyte solution at routine calibration
Depth	adjust for barometric pressure	N/A	recalibrate at deployment site for best accuracy
Turbidity	2 points	0 NTU, 10 NTU, 100 NTU, 400 NTU 600 and 1000 NTU available by special order	calibrate bracketing expected value
HDO (Optical DO)	calibrate at 100% saturated water	DI water -shake vigorously to oxygenate	set barometric pressure before calibrating, recalibrate at deployment site for best accuracy
Chlorophyll	2 points	liquid dye or Chlorophyll standard	calibrate to zero and calibration standard
Rhodamine	2 points	rhodamine dye standard	calibrate to zero and calibration standard
Blue Green Algae	2 points	lab sample or dye standard	calibrate to zero and calibration standard
Ammonium (NH4+)	2 points	Low 4.63 mg/l; High 46.3 mg/l	calibrate to Low and High Values
Nitrate (NO3+)	2 points	Low 4.62 mg/l; High 46.2 mg/l	calibrate to Low and High Values
Chloride (CL-)	2 points	Conductivity Standard 147 Micro S Conductivity Standard 1412 Micro S	enter 34.3 during calibration for low enter 319.3 mg/L for high

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