





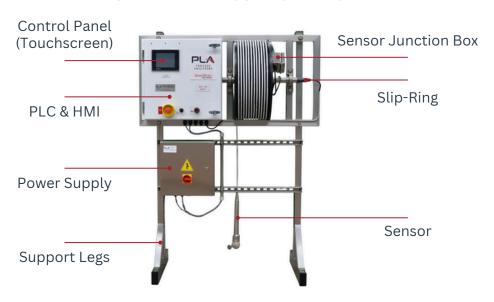
POCKET GUIDE

OPERATING & CONFIGURING

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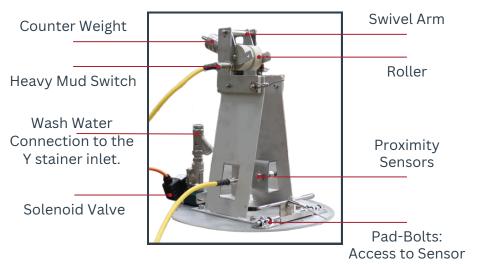
SMARTDIVER® COMPONENTS



SMARTDIVER® COMPONENTS



WASHBAY COMPONENTS





Spray Ring & Nozzles

CONTROL PANEL

TOUCHSCREEN

Adjust Settings

View Trends

View Alarms

EMERGENCY STOP

Safety quick stop

Removes power to the



ALARM RESET

Toggle the 2-position switch RUN-STOP-RUN* to reset Alarm

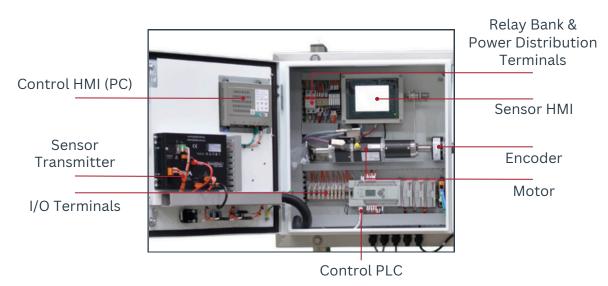
ALARM LIGHT

Indicates an Alarm

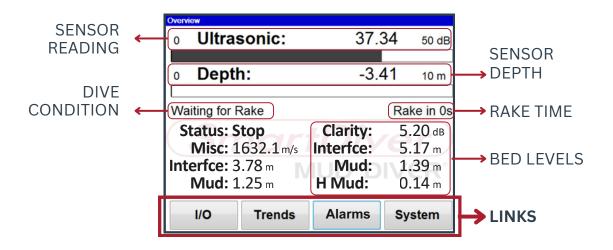
motor TWO POSITION SWITCH: RUN/STOP

Automatic dive operations
Raise sensor to wash bay and put into STOP MODE

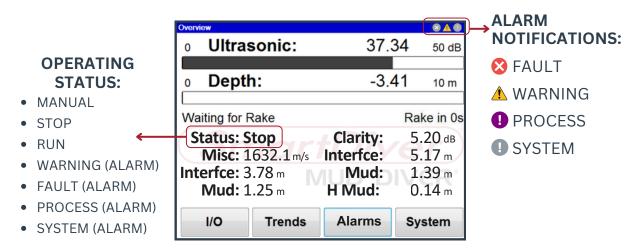
ENCLOSURE COMPONENTS



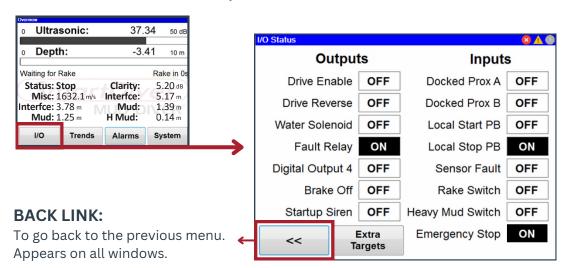
HMI - SCREEN OVERVIEW



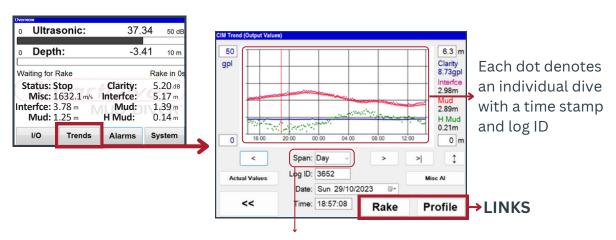
HMI - SCREEN OVERVIEW



I/O - SCREEN OVERVIEW



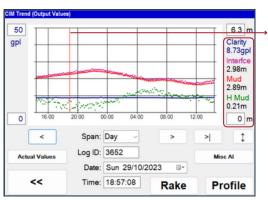
HMI-TREND SCREEN



SPAN SELECTION:

WEEK, DAY, 5 HOURS, OR 1 HOUR

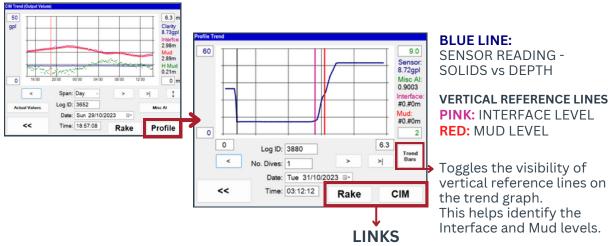
HMI - TREND SCREEN



To view specific values for any particular Dive:

- Tap any location on the Timeline
- A RED vertical line will appear at your selected point
- The corresponding values will be displayed in the panel on the right

HMI - PROFILE SCREEN



PINK: INTERFACE LEVEL

vertical reference lines on Interface and Mud levels.

DIVE PROFILE EXPLANATION - AXIS



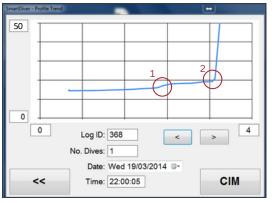
Y-AXIS (VERTICAL):

- Shows solids concentration measured by sound attenuation
- Range: 0 to 50 dB

X-AXIS (HORIZONTAL):

- Represents tank depth
- Starts at liquid level (0) on the left
- Increases in depth as you move right

DIVE PROFILE EXPLANATION



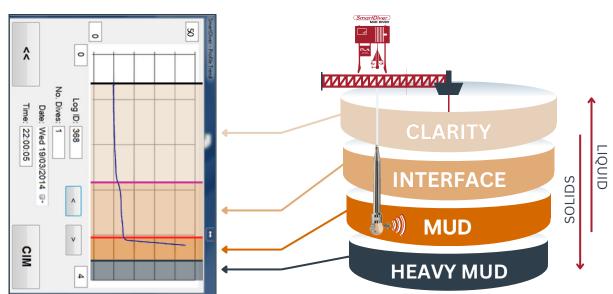
- 1. SMALL INCREASE = INTERFACE
- 2. LARGE INCREASE = **MUD**

ONE DIVE PROFILE

(Suspended solids vs Depth)

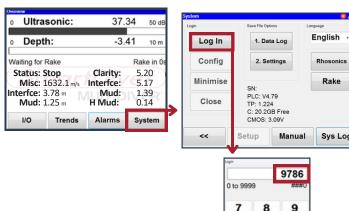
INCREASE IN SENSOR READING EQUATES TO AN INCREASE IN SUSPENDED SOLIDS CONCENTRATION

PROFILE ORIENTATION TO THE THICKENER

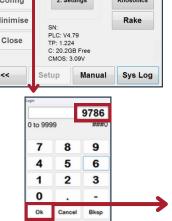


HMI – LOG IN ACCESS & SYSTEM PAGE

X A (f



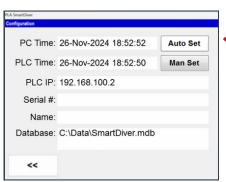
(!) Log in code is **9786**



SYSTEM PAGE

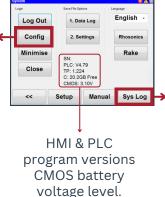


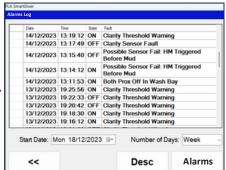
HMI - CONFIGURATION PAGE & SYSTEM LOGS



CONFIGURE DEVICE SETTINGS

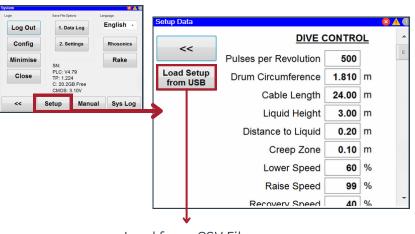
- a. PLC HMI Time adjustment
- b. PLC IP address
- c. Serial number ID
- d. Name of Site / Thickener
- e. Data file location





LIST OF SYSTEM DIAGNOSTIC LOG ENTRIES

HMI - SETUP PAGE



Load from .CSV File

- The setup page has 5 segments.
 - 1. Dive Control
 - 2. Rake
 - 3. Sensor
 - 4. Alarms
 - 5. Outputs

HMI - SAVING DATA LOG



DATA LOG:

All the historical dive records from this SmartDiver® will be saved to your USB memory stick.

This will save:

- Clarity, Interface and Mud (CIM) Trends
- Dive Profiles
- Fault Log Records

SETTINGS:

All the Settings from this SmartDiver® will be saved to your USB memory stick or your Computer's hard drive.

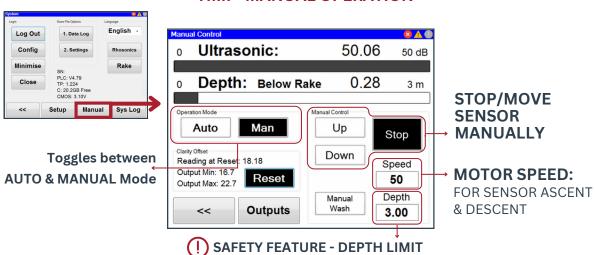
This will save:

Settings Data from Setup Page

MANUAL OPERATION DISCLAIMER

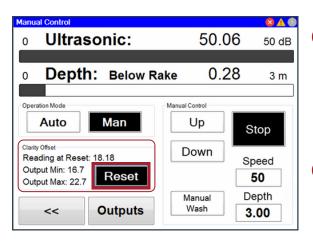
- USE MANUAL MODE ONLY IF YOU WANT TO:
 - CHANGE THE SENSOR FOR A NEW SENSOR
 - INSPECT / CLEAN THE SENSOR BY REMOVING IT FROM THE WASH BAY
 - WORK ON THE WASH BAY
- (I) WARNING: IN MANUAL MODE, SENSOR IS NOT SYNCHRONISED WITH THE RAKE AND RISKS COLLISION WITH RAKE DURING LOWERING.
- WHEN SWITCHING FROM MANUAL TO AUTO MODE WITH THE 2-POSITION SWITCH IN RUN, THE DIVER MAY BEGIN A DIVE SEQUENCE IMMEDIATELY.

HMI - MANUAL OPERATION



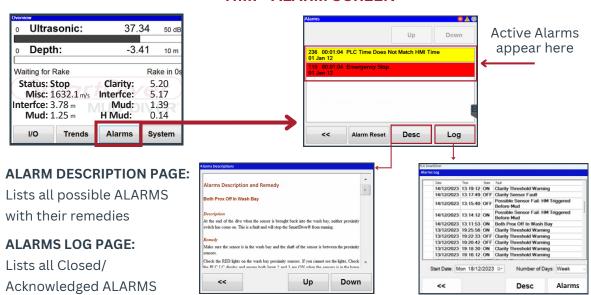
IN MANUAL MODE, THE SENSOR STOPS AT THIS DEPTH & CANNOT GO LOWER. ELIMINATES ACCIDENTAL SENSOR LOSS TO RAKE.

HMI - SENSOR CLEANING



- The Sensor's readings can drift due to scale buildup.
 - Clarity offset corrects this while still reflecting short-term changes and flares in all bed-levels.
- CLARITY OFFSET NEEDS TO BE RESET AFTER CLEANING OR DESCALING THE SENSOR.

HMI - ALARM SCREEN





CLICK HERE TO SEND A SERVICE REQUEST

