CleanAHull
Ultrasonic Antifouling System
Technical Specification Overview

Dimensions

20.1 x 12.1cm
footprint

5.5cm
height

6cm
diameter

6cm
height

Transducer
Model: CLHT-50

120g
weight

6cm
diameter

5mm
height

Transducer Footprint
Specially designed mounting footprint to simplify installation on flat surfaces.

20g
weight

Models

CLHUQ
Quad Transducer

CLHUD
Double Transducer

Voltage & Consumption

Input: 12 or 24VDC Auto Selecting
Consumption: Average ~920mAh @ 12VDC
Standby Consumption: Average 15mA @ 12VDC

Input: 12 or 24VDC Auto Selecting
Consumption: Average ~460mAh @ 12VDC
Standby Consumption: Average 15mA @ 12VDC

Consumption at 24VDC are typically 50 – 70% that of 12VDC values.

Transducers

4 x Transducers + Footprints

2 x Transducers + Footprints

Package Contents

- 1 x CLHUQ Control Module
- 4 x CleanAHull Transducers (Model CLH-T50) 10m of cable each.
- 4 x CleanAHull Transducer Footprints.
- 1 x JB Weld Epoxy Kit
- 1 x Loctite 515
- 1 x Instruction / Installation Manual

- 1 x CLHUQ Control Module
- 2 x CleanAHull Transducers (Model CLH-T50) 10m of cable each.
- 2 x CleanAHull Transducer Footprints.
- 1 x JB Weld Epoxy Kit
- 1 x Loctite 515
- 1 x Instruction / Installation Manual

System Certification

Transducer Output

4 Individually fused and protected transducer outputs. 50W peak output.

2 Individually fused and protected transducer outputs. 50W peak output.

Safety Features

- Internal Temperature control system with active compensation ensures system never exceeds operating range, increased life of electronics and optimal protection
- Internal power monitoring
- Onboard Monitoring and Isolation Function
- Individual Fuses for each Transducer output
- Sealed Enclosure (IP65) Dust Proof & Water Resistant
- IP68 Transducers
- Low Voltage Input

Individual Transducer Fuses

System Functions

- **Sleep Function:** 3 or 6 Hour Sleep modes. Button on front panel of module. Press once to enable 3 hours sleep – Press twice to enable 6 hours. The unit will then countdown the timer on the LCD panel. When Sleep is operating the Status LED will flash slowly Blue Only. Transducer operation will cease until the countdown expires.
- **Error Notifications:** Detailed Error status will be displayed using the LCD display. Buzzer will sound on Errors to attract attention to the problem.
- **Power Button:** Main Power On/Off control
- **Active Self Monitoring:** Internal Input and Output Current Monitoring, Temperature Monitoring and Active Output control ensures ultra long operating life and best possible Ultrasonic Protection.

Below is an outline of the core functions of the built in LCD display. Showing critical relevant information.

System Status Screen

Transducer Fuses Status Screen

CleanAHull 4CH
System OK

Transducer Fuses
T1✔ T2✔ T3✔ T4✔

Battery / Average Current Screen

System Temperature Status Screen

Battery: 25.87V
Current: 790mA

PSU Temp 52°C
Drive Temp 53°C

Installation

Installation Images

Transducer with Footprint

Transducer without Footprint

CleanAHull Transducer Mounting Process

Surface is prepared with 60Grit/Grade sand paper and surfaces are cleaned with acetone.
The provided Epoxy is mixed thoroughly and a thick layer is spread onto Footprint base.
Footprint is pressed into position; some tape can be used to hold.
Allow 24Hours, for full bond cure, before installing CleanAHull Transducer.

Mixed JB Weld Adhesive is applied to the base of the Footprint and the Footprint
is pressed into position.

Carefully clean top of Footprint and tape down until JB Weld Adhesive has cured.

loctite 515 is applied to the face of the transducer.

Transducer is installed onto Footprint as tightly as possible by hand

Ultrasonic Antifouling - How It Works

The CleanAHull device outputs a refined automated program of short ultrasonic wave burst signals through the Ultrasonic Transducer(s) which are mounted to your surface. This transducer emits specific digital low power frequencies which are beyond the hearing range of humans. The Ultrasonic Sound waves are emitted through your surface to generate a barrier at a microscopic level of moving water molecules throughout the submerged surface area which destroys the food source, algae. Thus preventing unwanted bio-growth from forming on your surface.

Advanced Technology
CleanAHull - Intelligent Technology Built-in

Our system uses an advanced digital micro controlled program, monitoring a myriad of internal sensors to ensure the best protection. 100% Automated for zero user configuration requirements. Everything from current to temperature is monitored thousands of times a second.

Years of in house development, real world testing and real results from our proven technology bring you CleanAHull. The most advanced, feature rich, robust, successful and self reliant Ultrasonic Antifouling system ever invented. Australian ingenuity at it's best.
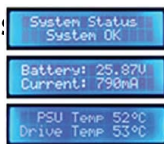
Key Benefits and Features

!Blast! Function
Advanced Ultrasonic !Blast! Function, provides enhanced protection in all climates.

LCD Display - Realtime Status
Realtime Status displayed on the built in LCD. Displaying System status, current, battery voltage, internal output state and more.

Multiple Transducer Output
2 (Double) and 4 (Quad) Transducer Output system options

12V or 24V - Automatic
Low Voltage Input for safety, durability, reliability and simplicity. Automatic 12 or 24V input
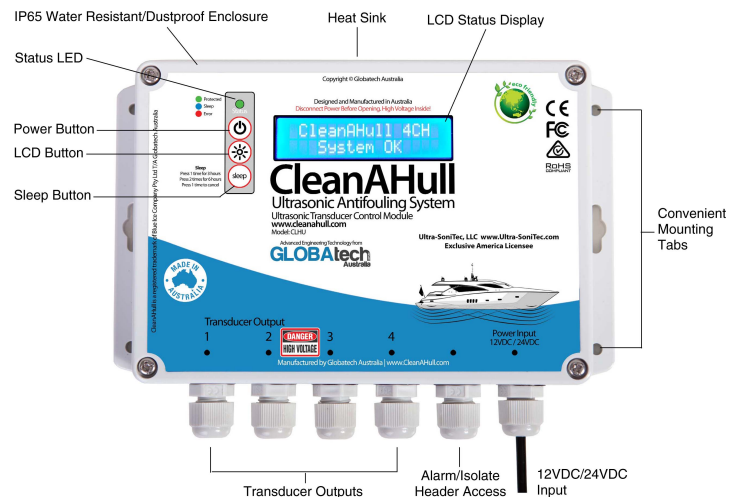
12or24VDC

Targeted Protection
Industrial Surface, Hull, Running Gear, Prop, Rudder, JPS Drive, Stem Drive, Sea Chest, Seawater Piping, Sea Strainer, Thruster, Stabilizer & more.

Temperature Compensation
Dynamic temperature control for long life and enhanced protection

IP65 Water Resistant/Dustproof Enclosure — Heat Sink — LCD Status Display
Status LED
Power Button
LCD Button
Sleep Button

CleanAHull 4CH
System OK

CleanAHull
Ultrasonic Antifouling System
Ultrasonic Transducer Control Module
www.cleanahull.com
Model: CLHU
Advanced Engineering Technology from
GLOBAtech Australia
Ultra-SoniTec, LLC www.Ultra-SoniTec.com
Exclusive America Licensee

Transducer Output
1   2   3   4   Power Input 12VDC / 24VDC
DANGER HIGH VOLTAGE
Manufactured by Globatech Australia | www.CleanAHull.com

Convenient Mounting Tabs

Transducer Outputs — Alarm/Isolate Header Access — 12VDC/24VDC Input

Low Power Consumption / Battery Monitoring
Built-in smarts for reduced power consumption & low battery protection

Advanced Current Monitoring
Output current monitoring for consistent controlled protection

Smart Technology - Zero Configuration
Advanced Self Monitoring program for ultimate protection

Advanced Transducer Design
In-house Designed transducer for improved efficiency & up to 300/o more output for the same or less input than the competition

Vessel Suitability
Scalable for any size vessel configuration, GRP Fiber Glass, Carbon Fiber, Kevlar, Steel or Aluminum.