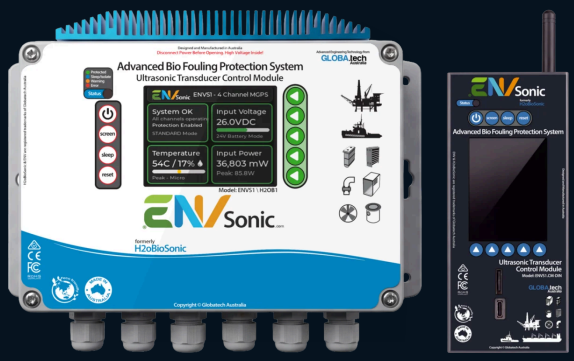
SERIES · VESSELS, FLEETS & INDUSTRIAL

ENVS1

THE ULTRASONIC ANTIFOULING SYSTEM FLEETS SPECIFY AS STANDARD: TUGS, FERRIES, WORKBOATS, OSVS AND INDUSTRIAL RAW-WATER SYSTEMS.



4 / 6
CHANNELS PER MODULE · CABINETS TO 54

12/24
VDC NATIVE · AC OPTIONS

IP67
ENCLOSURE

ENVS1 is ENVSonic's vessel, fleet and industrial range: four- and six-channel control modules in panel-mount or DIN-mount versions, combined in cabinets from 6 to 54 channels, every channel tested, calibrated daily and isolated automatically if a transducer unbonds, with three power modes and native 12/24 VDC plus AC options. It protects box coolers, sea chests, strainers, raw-water pipework, running gear and hull plating, is certified FCC, CE and RCM as a complete system, and is standard fitment across a fleet of more than 25 Asia-Pacific harbour tugs, with more than a decade in service worldwide.

BUILT FOR

BOX COOLERS & STRAINERS
Cooling capacity held at design on high-duty vessels idling in warm ports; no diver cleans, no dosing, no anodes. MRL Resources specified it at build for four 184 m processing barges.

FERRIES & FLEET STANDARD FITMENT
Australian Ro-Pax ferry retrofits around a live timetable, and standard fitment across more than 25 tugs in five classes for an Asia-Pacific towage operator.

INDUSTRIAL RAW-WATER & COOLING
HVAC chiller towers, process cooling, heat exchangers and aquaculture intakes without biocidal dosing.

RUNNING GEAR
Props, shafts, rudders and thrusters kept at blade-design efficiency with nothing in the water flow, as on S/Y Encore since 2013.

WHAT YOU GET

PER-CHANNEL MONITORING
Each transducer tested and isolatable; unbonded units detected and shut down.

DAILY CALIBRATION
Automatic profiling of each transducer to its installed environment.

THREE POWER MODES
Economy · Standard · Boost at the touch of a button.

TARGETED MODES
Hull/Chest · Box cooler · Heat exchanger · Running gear · Pipe · Water column.

DUAL POWER OPTION
Native 12/24 VDC with uninterruptible AC/DC configurations.

VESSEL INTEGRATION
Isolation control, alert output, 4/8-hour sleep function.

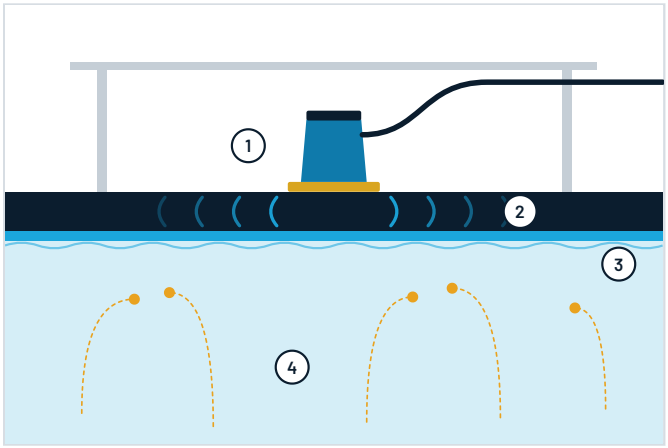
FULL DISPLAY + RGB
All information, all the time, with a quick-view status LED.

CERTIFIED
FCC, CE & RCM for the complete system. Three-year warranty, five with Monitoring & Maintenance.

SPECIFICATIONS

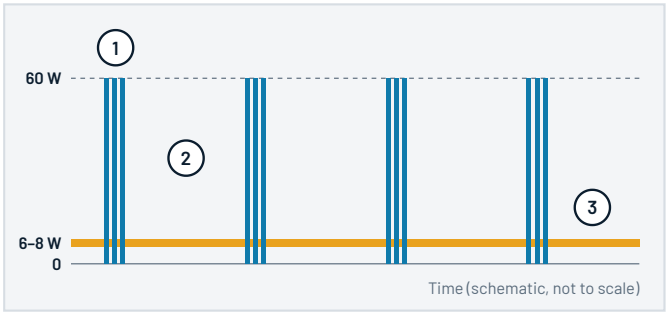
Channels	4 or 6 per module, panel-mount or DIN-mount; cabinets combine modules for 6 to 54 channels to suit the application
Input power	12 / 24 VDC native · optional 100–240 VAC dual-input
Output modes	Economy · Standard · Boost
Power per transducer	60 W rated, driven in full on every burst; typically 6 to 8 W average, set by the duty cycle
Enclosure	IP67 polycarbonate, anodised aluminium heatsink
Transducers	IP68 beyond 10 m, hermetically potted, proprietary footprint mount
PCB	Gold-plated, lead-free, conformally coated; control module RoHS compliant
Protection	Internal fused, monitored
Integration	Isolation input, alert output, menu-configured system modes
Certification / warranty	FCC · CE · RCM · 3 years (5 with Monitoring & Maintenance)

HOW ULTRASONIC ANTIFOULING KEEPS A SURFACE CLEAN



1. The transducer bonds through its footprint to the inboard side of the plating, inside the vessel.
2. Short bursts of ultrasound travel through the steel.
3. At the wetted surface the ultrasound drives non-inertial cavitation: a thin, constantly disturbed layer where larvae, algae and barnacles cannot settle.
4. Nothing is released into the water: no biocide, no anodes.

FULL POWER, IN BURSTS



1. Every burst is driven at the full 60 W rating.
2. Between bursts the transducer rests: protection does not need it on all the time.
3. Averaged over the cycle, a transducer typically draws 6 to 8 W.

SCOPE ENVS1 FOR YOUR VESSEL OR PLANT

Send the general arrangement and we return a transducer plan and proposal. Protects: box coolers, sea chests, strainers, raw-water pipework, props, shafts, rudders, thrusters and hull plating on tugs, ferries, fleets and industrial plant.

Product page
envsonic.com/products/envs1

Talk to the engineers
envsonic.com/contact

ENVSonic is designed, built and supported by GLOBAtech Australia Pty Ltd, Coomera, Queensland, the original ultrasonic antifouling OEM since 2006.
Specifications may change without notice; the proposal for each installation is definitive. DS-ENVS1 · November 2026.