marexi
marine technology

Advanced
Marine Technologies



PINGER®

REGISTERED TRADE MARK Nº 2.712.083

ACOUSTIC PINGER V2.3

Acoustic Deterrent Device for
Dolphins and other Cetaceans.

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Frequency		10 kHz ±2kHz Tonal
Pulse duration		300ms ±15ms
Repeat Interval		4 s ±0.2s
Sound Level / Range		145dB re 1µ Pa @ 1m ±4dB / Omnidirectional >120 meters
Harmonics		High Frequency
Saltwater Switch		Yes automatic set to freshwater conductivity.
Battery Test		Flashing Red Ligth.
Logic of Control		Low-power Texas Instruments MSP430F2121 Microprocessor.
Protection Circuit		CLAMP-type circuit against external electrostatic discharges.
Acoustic transducers		Double piezoceramic emitting element with silver coat.
Life		±9500h (Approx. 13 months).
Maximum Operative Depth		500m
Fixings		2 Multi-strand stainless steel wire rope - Transparent rubber jacketed
Materials		
	Body	Technical Polymer with UV protection chemical additive
	Fixings	AISI316 Stainless Steel - Transparent rubber jacketed
	Water contacts	AISI316L stainless steel flat pins.
Color		Matt Black
Dimensions		129mm X 45mm (Ø)
Weight		
	In air	±315g
	In water	±120g
Storage		Dry place : 3 Years



- The automatic on/off switch function for water immersion saves energy and increases the uptime of the device.
- The low battery indicator automatically turns on when the device internal low voltage circuitry detects that it has less than 3% of effective life left and a flashing red light illuminates, indicating that the Pinger has reached the end of its useful life and should be replaced.
- Avoiding possible noise pollution in the marine environment in case of accidental loss, the Pinger, after 48 hours of uninterrupted submersion, activates the silent mode. Once the pinger is removed from the water, normal operation is automatically reactivated.
- The stainless steel cable used as a clamping element allows any configuration of fastening element, including marine grade plastic cable ties, shackles, ropes, etc.
- The plastic material of the device is a technical advanced polymer, with a very high resistance to the abrasion and impacts, formulated with protective additives against the degradation produced by the ultraviolet solar radiation UV and other external agents existing in environments as the marine.

This acoustic deterrent device for Dolphins and other Cetaceans is in accordance with the Commission Implementing Regulation (EU) 2020/967 of 3 July 2020. That specifies for this Pinger model that its installation in the fishing nets must be carried out maintaining a maximum space between devices of 200 meters, with an acoustic device fixed to each end of the network or combination of joined nets.









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Once again Marexi innovates
at the service of the fishing industry



Company founded in 2004 in Vigo, SPAIN.
Marexi researches in projects and develops and commercialises products which are protected by international patents.

Technological solutions for fisheries, aquaculture, food and environment

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