

## The AQUAclick 100 Porpoise Click Logger

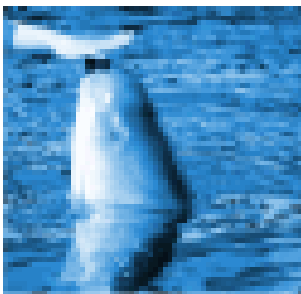
The AQUAclick 100 is a click recorder which monitors sonar activity from high frequency Harbour Porpoise (*Phocoena phocoena*) clicks. It is used to assess porpoise abundance in a given locality.

The unit is tuned to the porpoise sonar frequency of 130 kHz, with sufficient bandwidth to allow for porpoise sonar variations. Using a high sensitivity receiving transducer it detects the acoustic signals which are filtered to remove unwanted noise. There is further analogue and digital

signal processing, after which Aquatec's AQUAlogger technology is used to log the click events in non-volatile storage.

The parameters stored are: click occurrence time, click duration, and click sound level. After deployment, the logged data can be uploaded via high speed USB, allowing it to be analysed using the ClickView software provided.

### Features



- **Ease of use** Simply plug in USB connector and hit the deploy button. The unit will start when entering the water
- **Memory capacity** 8 MBytes standard memory size, to allow up to 800,000 clicks to be recorded.
- **Rechargeable battery** Battery is charged via the hydrophone connector, to avoid damaging O-ring seal on housing.
- **Train recognition** Click train recognition logs times when the unit interpreted a series of clicks as porpoise sonar activity, to allow quick analysis of data.

### Specification

<b>Acoustic Receiver</b>	Centre frequency 130 kHz, bandwidth 40 kHz
	Adjustable gain to set sensitivity level
	4 <sup>th</sup> order band pass passive filter for noise elimination
<b>Click Recorder</b>	Time resolution of click logging, 1 microsecond
	Storage capacity, 8Mbytes, or approximately 800,000 individual clicks
	Click amplitude level, more than 8 distinct levels over approximately 30dB range for post-deployment analysis
	Processing algorithms to minimise effects of transient noise and high frequency boat noise
	Detection of on-axis porpoise click from close range to >200m distance, based on 150dB re 1µPa @ 1m
<b>On/Off Control</b>	Saltwater switch or manually by using software supplied
<b>Dimensions</b>	240mm long x 88mm diameter
<b>Weight</b>	Approx 1kg in air; 300g in water depending on battery configuration
<b>Attachment</b>	Two fixing holes
<b>Maximum Operating Depth</b>	100m
<b>Battery Type and Life</b>	NiMh rechargeable: 2 weeks, in water
<b>Battery Charging Time</b>	2 hrs fast charge, separate charger using underwater connector
<b>Communications</b>	USB 1.1
<b>Software</b>	AQUAtalk software to upload data and deploy logger, ClickView software to view logged files



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