



electronic technical engineering & construction ultra low noise hydrophone charge amplifiers



Pinger Detector Amplifier

The ultimate Underwater Listening Amplifier and Acustic Alarm Detector

Also called Pinger Detector or Click Detector

For detection of Pingers and Sonars and other high frequency non audibles



## easy use and operation







#### controls and features

This unit will monitor the frequency range from 700Hz to 160kHz

Includes frequency converter for monitoring sounds above the audible range

This unit may also be used as a conventional underwater listening amplifier

It has a build in Automatic Gain Control for optimum signal strengh

High Pass Filters for attenuation of Seawaves and Engine noise

Gain hold function for suppression of background noise and transients

Switchable monitoring between full range hydrophone signal and frequency conversion

Low Noise Charge Input Amplifier will handle all passive piezoelectric transducers

### technical data

Extremely high signal gain of 80dB maximum

Switchable High Pass Filter Settings: 700Hz, 1500Hz, 3300Hz, 7000Hz

Output for headphones with standard 3.5mm mini jack.

Audible frequency range 20 to 20kHz with volume control

Full range hydrophone signal output with BNC connector and fixed signal level for measuring purpose

# special feature

a unique feature with this instrument is to monitor pingers directly from the inspection vessel

The effective low frequency filters
in conjunction with the Automatic Gain Control
may under moderate weather conditions
offer the unique possibility of monitoring pingers
even with the engines slow running
and/or the vessel in slow drift

### sensitivity considerations

In general this amplifier has been developed in order to monitor pingers at a very long distance

Analog pinger frequency 8 ... 12 kHz up to 400meters Digital pinger frequency 10 ... 120 kHz up to 200meters

The build in frequency detector will detect various frequencies at a distance up to 50meters

The maximum detection range is greatly influenced by the wether conditions and the general back ground noise

By operating the low frequency seawave filters and the automatic gain control function the user can obtain good sesitivity even in rough weather

