NAUTRONIX
MARINE TECHNOLOGY SOLUTIONS
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EMERGENCY THROUGH WATER COMMUNICATIONS

Nautronix Through Water Communications system is unique in that it can be interfaced with the Nautronix 350x series communication system for both opperability and unscrambling of Emergency Acoustic Communications, this is a requirement of Norsok diving regulations.

Emergency Through Water Communications is an essential element for any saturation diving operation. Should wired communication links be lost as a result of severed umbilicals then it is vital that clear and reliable communications can be made to the dive bell.

Nautronix design and manufacture a range of emergency acoustic communications units which can provide clear, long range speech capability through water. A system comprises of a surface unit and a bell unit, each with full hemispherical beam pattern and battery back up.

This system can be equally well utilised in a manned submersible for communications to a mother ship.

Emergency Through Water Communications System

BELL / SUBMERSIBLE UNITS

- Model 3133B - 25 kHz Bell Unit with External Electronics Pod

SURFACE UNITS

- Model 3135D - 25 kHz Surface Unit
- Model 3136B - 25 kHz Surface Unit with DSP Unscrambler Interface

FEATURES INCLUDED

- Excellent filtering of background noise
- Option for external bell electronics and battery pack
- Interfaces to Nautronix 350X Dive Communications system and Unscrambler
- 25 kHz (Standard) carrier frequencies
- Slant range estimated at 550m (dependant on environmental conditions)

The Mermaid Endurer - installed with Nautronix Emergency Through Water Communication system

BELL/SUBMERSIBLE UNITS GENERAL SPECIFICATION

	Sumbersible external bell - 3133B
Acoustic Output	20W (183.7 dB ref 1 micro pascal at 1 m)
Automatic Gain Control	50 dB dynamic range
Power Supply	24V DC (5A peak)
Wire Requirements	Power exterenal to bell, 12 way penetrator
Cabinet Material	Hard anodised aluminium
Temperature	Operating: -15 to 15°C
Controls	Battery low indication, press to talk
Included in Purchase	Transducer cable assembly (7 m), transducer, instruction manual, spare fuse.
Optional	24V DC battery pack, 24V charger, 115V / 230V universal input

SURFACE UNITS GENERAL SPECIFICATION

Acoustic Output	20W (183.7 dB ref 1 micro pascal at 1 m)
Automatic Gain Control	50 dB dynamic range
Transducer	Hemispherical beam pattern
Battery Life	10 hours assuming 10% transmission time with alkaline batteries
Battery Type	4 x 6V DC MN1604
Supply Voltage	24V DC (5 amps peak)
Cabinet Material	ABS plastic body and lid, anodised aluminium front panel
Features	Separate speaker and mic, unscrambler output, record facility, transmit light, fully sealed floating unit
Included in Purchase	Transducer cable assembly (61 m), transducer, instruction manual, spare fuse.

Dimensional Information Available on Request

Global Leaders in Through Water Communication and Positioning Technology
for the Offshore Industry

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