

Emergency Through Water Communications



Emergency Through Water Communications is an essential element for any saturation diving operation.

Should wired communication links be lost because of severed umbilical then it is vital that clear and reliable communications can be made to the dive bell.

Imenco 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.

Subsea, the electronics and battery are externally housed meaning no electronics or batteries within the bell.

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

Bell / Submersible Units

- Model 3140 - 25 kHz Bell Unit

Surface Units

- Model 3136C - 25 kHz Surface Unit with DSP Unscrambler Interface

Features Included

- Option for external bell electronics and battery pack
- Interfaces to Nautronix 350X Dive Communications system and Unscrambler
- 25 kHz SSB (Standard) carrier frequencies
- Option for 8 kHz SSB ETWC System



Model 3136C Surface Unit, 8003-6801 Transducer



Model 3140 Bell System

For further information, email
nautronix@imenco.com

Bell/Submersible Units	General Specification
Submersible External Bell – 3140	
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 external 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 – 3136C
Acoustic Output	20W (183.7 dB ref 1 micro pascal at 1 m)
Automatic Gain Control	50 dB dynamic range
Transducer	Hemispherical Beam Pattern
Supply Voltage	24V DC (5 amps peak)
Cabinet Material	19" Rack mounted Aluminium Enclosure
Dimensions	Height: 132.6 mm(3U), Width: 482.6 mm, Depth: 313 mm, Weight: 4.2 kgs
Features	Remote operation from HSU Desk, unscrambler output, record facility, transmit light.
Included in Purchase	Transducer cable assembly (61 m), transducer, instruction manual, spare fuse.

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