Hyperbaric Lifeboat
Digital Diver Communications System

COMMERCIAL DIVE SYSTEM PRODUCTS

Key Features:

- **Unrivalled audio performance**

- **Fully digital audio processing**

- **Advanced helium speech unscrambler**

- **Stand-alone or integrated system**

- **Cockpit installed IP65 Comms Unit**

- **Ruggedised Tablet PC**

- **Pre-installed SPHL Comms Software**

- **Scalable - 3 channels expandable to 6**

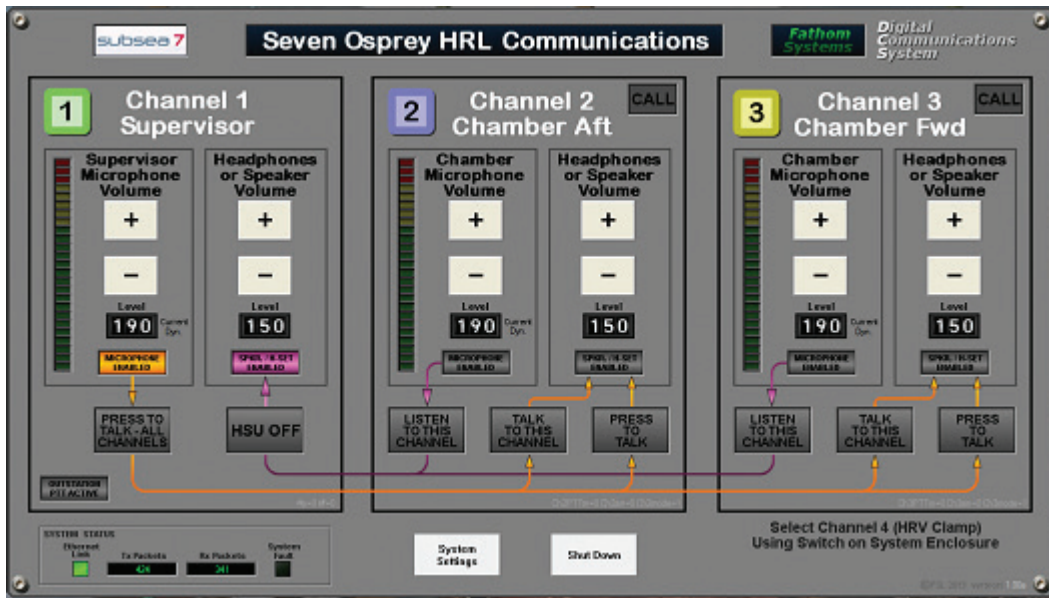- **Chamber internal & external remote speaker outstations**

Product Overview:

The system is based on a 3U electronic system chassis packaged inside an IP65 rated 316 stainless steel enclosure and is typically mounted to a bulkhead inside the cockpit and within reach of the LSS. The chassis comprises a number of individual electronic modules connected together by a passive backplane. The system is offered as either a 3- or 6-channel option. For each channel there is a separate remote outstation unit which has a microphone and loudspeaker plus headset connection.

This application is to allow the SPHL chamber supervisor (typically an LSS/LST) to communicate with divers inside the SPHL chamber and also allows communications between the SPHL cockpit and an outstation local to the SPHL launch station prior to the SPHL being launched.

Control of the SPHL Comms unit is via a ruggedised tablet PC with dedicated software which is mounted local to the main system enclosure.

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Electrical

- 24V DC Input (from SPHL power system)
- 15.6V DC (for Toughpad, supplied via system chassis integrated PSU)

Mechanical

- 316 S/S IP65 Enclosure, 400 x 400 x 210
- Remote Outstations app.260 x 160 x 103

Software Features

- Standard SPHL Software graphics
- Clear colour coded graphical representations
- Password Protection & Supervisor Login
- Stored preferred system settings
- USB Interface

HMI

- Ergonomic user interface panel using touch-screen technology
- Panasonic CF-D1 Toughpad supplied in Hard Anodised Aluminium Carrier Frame

The remote outstations are located both internal and external to the SPHL chamber area where communications are required, and each outstation is connected back to the main system chassis (stainless enclosure) by fixed cables. The Supervisor in charge of the communications system (the Master user, and in the SPHL application typically the LSS) controls the volume levels of the various channels and is responsible for enabling and 'routing' the various channels to allow communications between the desired parties.