

DDCS - Digital Diver Communications System



COMMERCIAL DIVE SYSTEM PRODUCTS

Key Features:

- Unrivalled audio performance
- Fully digital audio processing
- Advanced helium speech unscrambler
- HMI touchscreen technology
- Optional fibre-optic networking
- Automatic duty/standby changeover
- Stand-alone or integrated system
- Scalable - 3 channels expandable to 15



Product Overview:

The DDCS is a high end voice communications system for use in commercial diving applications. The modular system ranges from a simple 3-channel stand-alone unit to a complex multi-channel system, spread over a number of separate interconnected units.

When complex systems are required, it is advantageous to link a number of units together to form a communications 'network'. This facility is provided via the optional fibre-optic connected 'Fibrenet' link, which uses a dual redundant fibre-optic 'ring' to connect all DDCS units together using singlemode fibres.

In cases where such a network is set up, any Remote User channel on any DDCS unit is available to both the local DDCS unit and any other DDCS unit on the network.

The DDCS is based around a 3U 19" system chassis into which a number of modules are plugged, each enclosed in a fully screened and protected housing.



Electrical

- 240V AC @ 50-60HZ (SYSTEM CHASSIS)
- 24V DC @ 2A (OCP)

Mechanical

- Integrated OCP – 19” x 3U x 362mm
- Non-integrated OCP – 19” x 3U x 302mm
- Stand-alone OCP – 19” X 3U x 197mm

HMI

- Ergonomic 8.4” user interface panel using touch-screen technology

Software Features

- User friendly ‘Bus’ channel selection
- Extensive technician configurations
- Detailed diagnostics and logging tools
- Clear colour coded graphical representations
- Password Protection & Supervisor Login
- Stored preferred system settings
- USB Interface
- Fully configurable settings

Optional Fibre

- Single Mode 9/125/250

The system chassis can be mounted in any suitable rack location and does not need to be located at the Master User’s control panel (as with existing Comms equipment). It is controlled by a dedicated Operator Control Panel (OCP) unit. The OCP can be mounted local to the System Chassis or remotely on a separate User’s control stand.

The ‘Master’ User is typically a Dive Supervisor (for diving bell or surface-supplied Dive control installation) or a LSS/LST for SAT Control chamber comms applications. The remote users can be in-water divers, divers in the chambers or any other personnel located at a remote outstation (e.g. on-deck personnel, crane operators etc.)

The system is type-tested in accordance with the requirements of DNV OS-D202 and OS-E402, ensuring compliance for EMC, shock, vibration, temperature and humidity.

The system can also be qualified for use in geographical areas where intelligibility testing is a requirement (e.g. Norway under the NORSOK regulations)