



DRASS KOMMS is a market-leading wired communication system that incorporates the latest advancements in technology and design, and complies with DNV GL, ABS and LR classification bodies.

To achieve both the best performance and reliability, the design philosophy of the system has been completely redefined by moving all the hyperbaric related elements inside the hyperbaric environment.

The finished product is a standard atmospheric intercom system that incorporates state-of-the-art technology at affordable costs.

UNIQUE FEATURES & FUNCTIONALITY

The inner area communication box uniquely incorporates:

- a **depth sensor**, a feature not available anywhere on the market until now. Inclusion of a depth sensor ensures that each Helium Speech Unscrambler is capable of automatically setting the proper unscrambling algorithm for its actual depth with no need for operator intervention from the consoles.
- an **embedded acoustic echo-cancelling** feature, which is essential to obtain high quality voice communications in confined diving compartments. This feature means that open comms (with the included ambient loudspeaker/microphone) are always clearly

audible. What is more, the unscrambling algorithm fully restores the actual voice of helium divers, and omits the classic echo of the supervisor.

- The core of the wired system is a **dedicated network** linking both the vessel intercom and the diving intercom, interconnecting all stations in the loop, whilst ensuring a greater level of system redundancy on each digital matrix during the transmission of control and audio.
- The system simultaneously connects thousands of links through a **seamless fusion of technologies:** Hardwired analog, digital, wireless (UHF, DECT, Bluetooth) plus several frequencies and modulations. Audio digitalization is fully 24 bit with VOX, gains and many other fully customizable parameters. Control panels can be traditional or colour colour and touchscreens.
- The **Vlink application** is the only fully interconnected DHCP-compliant (Dynamic Host Configuration Protocol) virtual communication solution on the market today. It is capable of accessing the intercom system using WiFi/3G/4G internet connectivity on PC, tablet and even smartphones. Redundancy is provided as standard with dual power supply.



DIGITAL MATRIX

The **Saturation Digital Matrix** is capable of connecting up to 16 analog stations and 128 digital stations. It has a compact 1U package with full power-supply redundancy. Where expansion is required, up to 8 digital matrixes can be stacked and connected to form one single super intercom system connecting thousands of stations with mixed technology.

The "Real-Time Online Configuration & Monitoring" function enables all matrix configuration switches seamlessly during normal activities - a unique feature that is not found on other commercial diving communication systems on the market.

The matrix can be easily connected to a PC configuration via Ethernet link.

The full physical customization of the system is assured with the option to choose each specific component from a standard part list. For the configuration, a detailed number of links is specified.



K-PANEL

K-Panel user interfaces fit in a standard 19" rack and require only 1U or 2U, depending on the number of lever switches required. The K-panel combines all the programmable features such as DSP and headset.



Table of commercial codes for each configuration proposal:

COMMERCIAL CODE	DESCRIPTION
97CD-02-04-01-00-00	Public Comm TB24-4DDC-2T-iSAT
97CD-02-04-02-00-00	Public Comm TB24-6DDC-2T-iSAT
97CD-02-04-03-00-00	Public Comm TB18-4DDC-2T-iSAT
97CD-02-04-04-00-00	Public Comm TB18-4DDC-2T
97CD-02-04-05-00-00	Public Comm TB18-3DDC-2T-iSAT
97CD-02-04-06-00-00	Public Comm TB12-2DDC-T
97CD-02-04-07-00-00	Public Comm TB12-2DDC
97CD-02-04-08-00-00	Public Comm TB18-3DDC-1T-iSAT
97CD-02-05-01-00-00	Public Comm +Air Dive TB24-4DDC-2T-iSAT
97CD-02-05-02-00-00	Public Comm +Air Dive TB24-6DDC-2T-iSAT
97CD-02-05-03-00-00	Public Comm +Air Dive TB18-4DDC-2T-iSAT
97CD-02-05-04-00-00	Public Comm +Air Dive TB18-4DDC-2T
97CD-02-05-05-00-00	Public Comm +Air Dive TB18-3DDC-2T-iSAT
97CD-02-05-06-00-00	Public Comm +Air Dive TB12-2DDC-T
97CD-02-05-07-00-00	Public Comm +Air Dive TB12-2DDC
97CD-02-05-08-00-00	Public Comm +Air Dive TB18-3DDC-1T-iSAT
97CD-02-02-01-00-00	Private Comms

