

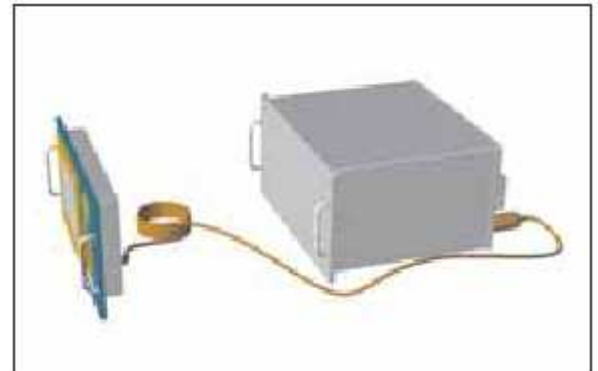
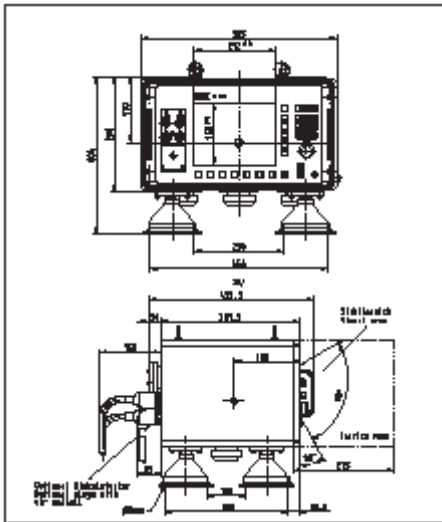
# Communication sous-marine

## UT 3000

- MULTI-MODE UW-COMMUNICATION
- ANALOGUE AND DIGITAL COMMS
- SECTOR-/ OMNI DIRECTIONAL OPERATION
- UP TO FOUR TRANSDUCER GROUP
- DIGITAL DATA LINK
- SMS TRANSMISSION AND RECEPTION
- PR-DEFINED PHRASE TRANSMISSION
- REMOTE OPERATION



Technical data	
Frequency range	1 kHz to 60 kHz, tuneable in steps of 50 Hz for analogue communication; NATO standard carrier frequency; 6 kHz band at 12 kHz for medium data rate (MDR) digital communication 10 kHz band at 30 kHz for high data rate (HDR) digital communication
Power output	up to 320W at 4 transducer groups, reducible -12 dB, -24 dB, -36 dB
Telephony signal	300 Hz to 3 kHz (audio band)
Telegraphy signal	800 Hz (reduced bandwidth of 1 kHz)
Audio output	1W at 4 Ω
Headphone	50 mW at 600 Ω
Interfaces	Audio In/Out for Intercom, keying and captain's key NMEA Input USB, RJ-45 (Ethernet), RS 232 for external interfacing
Environmental conditions	according to military standards, details on request
Dimensions:	Transmit-/Receive and Control Unit SEB 34:421 x 505 x 294 mm (without shock-mounts) approx. 36 kg
Power supply:	
Mains:	115V AC or 230V AC 50/60 Hz
Anti-condensation heating:	115V AC or 230V AC 50/60 Hz or 160 up to 330V DC
Power consumption:	
Mains:	max. 1200VA (at 320W transmitting power; CW) max. 200VA (receiving mode)
Anti-condensation heating:	approx. 15W



Remote-controlled operation of UT 3000

## Operational features

The UT 3000 is a compact DSP controlled multifunctional acoustic underwater communication system with graphic display and keyboard.

It offers besides the obligatory analogue telephony and telegraphy modes according to NATO – STANAG a large number of additional functions in a wide and variable frequency range.

The output power is adjustable and sector- or omnidirectional operation is possible to communicate not only via high energy levels with other UT equipped vessels but also with divers.

Based on latest versatile and modular DSP-technology a variety of digital, robust signal modulations (MFSK, QPSK) are included in the UT 3000.

Stealth communication can be achieved by the optional modes:

- Direct Sequence Spread Spectrum (DSSS) or
- Frequency Hopping (FH)

Thus, digital transmission of voice and data, stealthy transmission of short messages or commands is possible, which is supported by storage of user-defined phrases.

Depending on the selected transducer configuration, the chosen modulation and the environmental conditions, the following data rates can be achieved:

- Medium data rate (MDR): up to 2400 bps
- High data rate (HDR): up to 9600 bps
- Long-range robust data rate (LDR): up to 90 bps

### Further modes:

- Telephony
- Telegraphy
- Pinger
- Noise measurement
- Emergency
- Transponder\*
- Distance measurement\*

\*option

The UT 3000 can be remote-controlled by the compact Display Unit BDE 34 via Ethernet link if the transceiver unit is mounted in 19" rack.