Underwater Communication System UT 2200

- Compact underwater telephone for surface ships and submarines
- Emergency telephone for submarines
- Full compatibility with all NATO underwater-telephones
- Communication acc. to STANAG 1074 and 1298
- Sonar beacon operation acc. to STANAG 1382
- Tested according to defense standards

Applications

The UT 2200 is a compact underwater telephone which allows communication between surface ships and submarines as well as between ships and divers. The basic application of the UT 2200 is as an emergency telephone for submarines in distress situations. The compact housing and the (optional) internal lithium battery allow emergency operation for a long time independent from ship's power supply and under adverse environmental conditions. Three selectable carrier frequencies can be chosen from a list of 16 frequencies according to the frequency range of the used transducers. The release of the selected frequencies is carried out by the manufacturer.

Highlights

HIGH EFFICIENCY
- Omni-directional transducer
- Three levels of transmission power
- Extensive transmission range
- Long operating time with internal battery

SAFETY
- Optimal environmental protection by a rugged mechanical construction
- Emergency operation without accessories by additional microphone and press-to-talk-switch integrated in the housing

RELIABILITY
- Lowest power consumption
- Integrated test system
- Lithium battery with a very long standby time
- Optional uninterruptible power supply (UPS)
- MTBF: > 10,000 hours
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Technical Data

Carrier frequency: 3 selectable frequencies for all operation modes; these frequencies can be chosen out of 16 possible frequencies between 8.0875 kHz and 42 kHz (including the frequencies defined in the STANAG 1074)

Modulation: amplitude modulation (AM) with upper sideband and suppressed carrier (SSB)

Operating modes:
- telephony: audio bandwidth: 300-3000 Hz
- telegraphy: audio tone: 800 Hz
- pinger: audio tone: 800 Hz
- pulse length: 150 ms
- repetition time: 1 min

built-in-test:
- test modes: functional test
- battery test

Receiver data:
- output power: max. 1 W at 4 Ω
- volume: adjustable by gain: range: > 60 dB
- audio outputs: internal loudspeaker and disconnectable headphone
- squelch: settings: ON / OFF

Transmitter data:
- output power: max. 100 W at 35 Ω settings:
  - 0 dB; -10 dB; -20 dB

Operating time:
- normal operation: at ship’s 28 V DC - supply: unlimited
- emergency mode: pinger operation acc. to STANAG 1298 supplied by internal lithium battery: 1 ping/min 336 hours (>14 days)

Power supply:
- standard version: - 28 V DC ship’s supply: acc. to STANAG 1008
- emergency version: 28 V / 13 Ah

Standard configuration:
- operation- and display unit SEE 31
- headset (phones, microphone and PTT/key) TF 18
- omnidirectional transducer TSE 7

Environment: The equipment is tested in accordance with the corresponding military standards

Optional attachments:
- morse key TT 1
- microphone MI 13
- omnidirectional transducer TSE 5
- for LF only operation UPS

Technical data are subject to change without notice. 2005/06