

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

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
	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
		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:	- 28V DC ship's supply:	acc. to STANAG 1008
	emergency version:	- 28V DC ship's supply and internal lithium battery:	28V / 13 Ah
Standard configuration:	- operation- and display unit		SEE 31
	- headset (phones, microphone and PTT/key)		TF 18
	- omnidirectional transducer		TSE 7
	- for LF- and HF-operation		
Environment:	The equipment is tested in accordance with the corresponding military standards		
Optional attachments:	- morse key		TT 1
	- microphone		MI 13
	- omnidirectional transducer		
	- for LF only operation		TSE 5
	- uninterruptible power supply		UPS

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

