

Underwater Telephone



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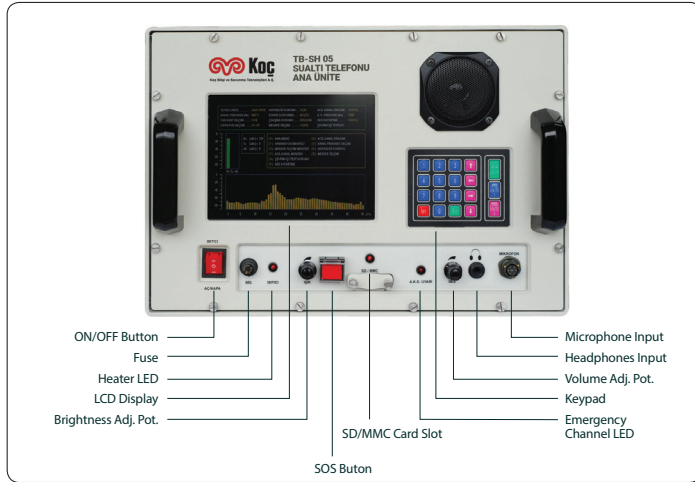


Koç Bilgi ve Savunma Teknolojileri A.Ş.

Underwater telephone is all microprocessor controlled system, which provides communication between submarines and vessels through underwater acoustic waves.

Communications made in two ways including telephone and telegraph modes. Fixed versions of Underwater Telephone for vessels and portable versions for rescue bots are available.

- Telephone And Telegraph Communication Compatible With Stanag-1074 And Stanag-1382 3 Level Adjustable Output Power
- Special Design User Interface
- Built In Test Feature
- Sonar Protection Interface
- Emergency Channel Listening Feature
- 24 Hour Sound Recording And Listening Feature Sound And Data Transferring with SD/MMC Cards



Technical Specs	
Supply Voltage	<ul style="list-style-type: none"> • 115V AC 50/60 Hz +- %10 • 220V AC 50/60 Hz +- %10
Maximum Input Power	300W
Max. Heating Power for Dehumidification	10W
Environmental Compatibility	<ul style="list-style-type: none"> • Operating Temperature Range: 0° C - 45° C • Storage Temperature Range: -40° C - +70° C • EMC/EMI Compatibility: MIL-STD 461E (RE101, RE102, CE102, RS103, CS101, CS114, CS116, RS101) • Humidity: MIL-STD-810F, %90 RH(45° C) • Pressure(Absolute): MIL-STD-810F; 0,45 bar - 1,4 bar (Operating), 0,2 bar - 1,4 bar (Storage) • Angular Position: Tilt 60°, Trim 5°, Roll 60°, Pitch 15° • Acoustic Noise Level: Less than 49dB (@1m) • Corrosion: ASTM-B-117-09, ASTM-D-714-02 • Brightness: ANEP 25 (20cd/m2) • Ingress Protection Rating: IP23 (TS3033, EN 60529) • Vibration: MIL-STD-167-1
Display	8,5 Inch TFT LCD, 640x480 pixels
Communication Channel Frequency Range	<ul style="list-style-type: none"> • 2000 - 40000 Hz (USB), • 5000 - 43000 Hz (LSB)
Modulation Type	Lower Sideband(LSB), Upper Sideband(USB)
Channel Frequencies (3 up to 6)	<ul style="list-style-type: none"> • NATO (8087 . 5 Hz) • Turkish Navy (3500 Hz) • User setting • Other Channel Frequencies (Added and organized by user)
Emergency Channel Listening Frequency Range	2000 - 45000 Hz.
Emergency Channel Listening Frequencies (3 up to 12)	<ul style="list-style-type: none"> • 5000 Hz, 50 ms Signal Duration, 10s Repetition Period • 35000 Hz, 10ms Signal Duration, 1s Repetition Period • User setting • Other Emergency Channel Listening Frequencies (Added and organized by user)
Distance Measurement	<ul style="list-style-type: none"> • Full Automatic with TB SH 05 series and Semi-automatic with other Underwater Telephones • Maximum Distance : 30000 m
Telegraph Mode	<ul style="list-style-type: none"> • Morse Coded Message Sending Rate: 5-200 word/min. • Morse Coded Message Listening and Decoding: 5-200 word/min. (Automatic recognition) • Sending and Receiving ISO 8859-9 standard Turkish Character S • Received Message can be transferred to an SD/MMC Card
Sound Recording and Listening	<ul style="list-style-type: none"> • Format: Digital • 24 Hour Sound Recording (Maximum 1024 records) • Records can be transferred as a *.WAV file to SD/MMC Card • Sorting in ascending or descending order according to date or duration • Sound records can be listened from Main Unit and Remote Control Units at the same time • Recording voices of each side operators.
User Adjustable and Selectable Output Power Levels	10W(Short Dist.) - 50W (Middle Dist.) - 100W (Long Dist.)
Built In Test Module	<ul style="list-style-type: none"> • Online and Offline Tests • Interface Tests • Logging of Fault/Information Events (Max. 2048 logs) • Fault/Information logs can be transferred to SD/MMC Card as a *.Text file
Interfaces	<ul style="list-style-type: none"> • SONAR Interface • Internal Communication Interface

Manufactured under the license of TÜBİTAK BİLGEM.

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