



KONGSBERG

## TP300 – Tactical Field Telephone

A user-friendly CB telephone for use in a harsh environment

### Unique control room communication

With auto answer function activated, the phone automatically goes off-hook on incoming call.

Public Announcement is available through external loudspeaker connected to the CU300.

Auto on-hook ensures call termination.

### Radio control features

Pressel signalling when enabled, can be used for control of remote radios

### Handset or hands free operation

Detachable handset, may be replaced with headset for hands-free operation

### Functionality

The TP300 is a 2-wire analogue telephone for voice communication in Central Battery systems. Its inherent features make it equally suited both as a plain telephone and as a special features telephone in control room applications.

### Design

It is designed in accordance with military requirements for use in a harsh environment. The phone can be used on the table, hanged on a three or on a wall.

It can be carried in a bag or with a carrying strap.



### Features:

- Easy network connection using field cable
- DTMF signalling
- Storing of last dialled number with redial
- Storage of 10 pre-programmed numbers
- Push-to-Talk switch function
- Ringing facility adjustable in steps including silent
- Both audible and red LED indication of incoming call
- Rugged, weatherproof and waterproof
- Easy to use push buttons
- Adjustable handset/headset earphone volume
- Handset anatomically designed for use with helmet
- No batteries – no maintenance
- Modern design
  
- Connection Unit CU300 (optional) enable
  - Connection of both handset and headset
  - Connectors for external loudspeaker

# TP300

## Specifications

### Transmission Range

16 km using a standard field cable WD1-TT (or equivalent)

### Line

Line impedance	Complex according to EN301437
Return loss	>18dB at 1000 Hz
Minimum DC current	10 mA

### Call detection criteria

Min. ringing voltage	24 Vrms
Ringing frequency	25 Hz / 50 Hz nominal
Ring pulse	According to Q.35 and EN301437
Min. duration for detection	100 ms on

### Acoustical interface

Frequency range	300 - 3400 Hz
Microphone type	Dynamic with noise cancellation
Microphone impedance	150 Ω
Earpiece type	Dynamic
Earpiece impedance	1000 Ω

### Tested

MIL-STD-810F	Temperature, mechanical stress and shock
MIL-STD-461E	EMI/EMC (RE102 and CS114)
EN-61000-4-2	ESD
EN-61000-4-5	Lightning

### Ringing output

Sound pressure	Typical 80 dBA measured at 1 meter distance (buzzer volume position 3)
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### Environmental data

Operating Temperature	-25°C to +55°C
Storage Temperature	-55°C to +70°C
Relative humidity	90-95 % at +55°C
Driving rain	100 mm/hour



TP300 is designed to be used with both handset and headset. With the external unit CU300 both can be connected at the same time.

In addition, the CU300 allows connection of an external Loudspeaker System.



### Reliability

MTBF	149 900 hours
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### Dimensions and Weight

Height:	61 mm (without handset)
Height:	86 mm (with handset)
Width:	196 mm
Length:	220 mm
Weight:	1,3 kg (without handset)
Weight:	1,7 kg (with handset)

This publication is not to be regarded as a complete system specification, or to be used as a contract document. We reserve the right to change the design or specifications without prior notice.

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