

AFT1001 – Analogue Field Telephone

User-friendly Analogue Field phone for harsh environment

Functionality:

AFT1001 is family of lightweight, ruggedized, Microcontroller based and portable 2-wire analogue field telephones for voice communication capable of working in Local Battery (LB) mode Central Battery (CB) mode and Central Battery Signalling (CBS)/Local Battery Radio (LBR) mode.

Models*

AFT1001 - Supports LB,CB and LBR mode AFT1001-S - Supports LB, CB, CBS mode AFT1001-N - Basic LB, CB and LBR phone without memory

Applications:

LB: Capable of working with another magneto telephone of similar kind or with a magneto exchange.

CB: Auto telephone with DTMF or Pulse dialling facility from built-in keypad.

CBS: Model with CBS feature support CBS signalling which is low powered CB mode for long distance operation.

LBR: Pressel switch used for remote radio operation, connected on network system using additional Radio Adaptor Unit (RAU) for remote operation of Radio set connected through Interface Cable

- Microcontroller based state-of the art design.
- H-350/U type handset, compatible with helmet.
- In accordance with MIL Standard.
- Programmable Signal level in CB and CBS mode
- Polarity independent external battery connection

Features:

- Push-To-Talk handset function
- Adjustable levels for acoustical signal, including whisper mode
- Audio and LED indication for incoming call
- · Easy to use push buttons with backlight
- · Auto Answer feature for use with headset
- Storage of up to 10 pre-defined numbers in memory
- Standard batteries (3 no's of 1.5V C-type) or external battery (6V to 24V) used for LB function
- · Battery quality status with LED indication
- Line man test facility
- Ringing Signal through Push Button
- Line Terminal Spring Loaded Type
- · Membrane type Keypad



Design Patent:

AFT1001 design patent No. is 264378

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Specifications

Line / Transmission

Impedance (@1KHz) 600 Q

Transmission length Up to 30 km in LB mode

Up to 10 km in CB mode Up to 15 km in CBS mode,

using standard field cable WD1-TT

(or equivalent)

Speech range 55dB

Speech output > 900mV RMS

Mode of Operation

Central Battery (CB) DTMF or Pulse Dialling, Auto

Answer

Central Battery Signalling

DTMF or Pulse Dialling

(CBS)

Local Battery (LB) Magneto

Local Battery Radio (LBR) Remote Radio Operation

(using OPTIONAL RAU)

Incoming Ring Sense

Ringing voltage > 25V AC Ringing frequency 16 - 25 Hz

Acoustical Interface

300 - 3400 Hz Frequency range Microphone Dynamic

1000 Ω impedance Speaker

Side tone > 14dB

Battery Voltage (LB)

Internal 3 of 1.5V C-type External 6V - 24V DC Max current drain 180 mA Max speech current 8 mA Idle current < 1 mA

Ringing Generator Voltage (LB)

> 90V (at no load) Min. voltage Frequency 25Hz ± 2Hz

Environmental Data

Operating Temperature -30°C to +60°C Storage Temperature -40°C to +70°C Relative Humidity 95 % (+50°C) Rain 100 mm/hour

References

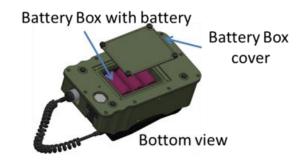
MIL-STD-810G Temperature and mechanical stress

MIL-STD-461E EMI/EMC EN-61000-4-2 **FSD** Lightening EN-61000-4-5

* For model specific features and ordering part number correspondence on below email

System Switch Numeric Line Terminal Keypad Battery Monitoring Key Battery Status Battery Termina LED Redial Key Ring Indicator Memory Key Receive level control Status LED Off / On Hook Key Volume switch Flash Key Handset connector Magneto Call

switch



Reliability

MTBF > 85,000 hours

Dimensions and Weight

80 mm (without handset) Height: Height: 109 mm (with handset) Width:

122 mm Length: 215 mm

Weight: 1,8 kg (with handset) Weight:

2,5 kg (with handset, batteries, manual and carrying bag)

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.