

AFT1001

Analogue Field Telephone



AFT1001 is a user-friendly analogue field phone for harsh environment. It is a 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.

VARIANTS

	Variant	Ordering Part	Description
A	AFT1001	DPAN002023	Mode : CB, LB, LBR, CBAA Handset : H350/U connectivity
B	AFT1001H	DPAN002029	Mode : CB, LB, LBR, CBAA Handset : H250/U connectivity
C	AFT1001S	DPAN002030	Mode: LB, CB, CBS Handset : H350/U connectivity



DESIGN

- Microcontroller based state-of the art design.
- In accordance with MIL Standard.
- Programmable Signal level in CB and CBS mode
- Polarity independent external battery connection

DESIGN PATENTS

- Patent no : 264378
- Patent no : 328401-001
- Patent no : 328402-001



APPLICATIONS

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

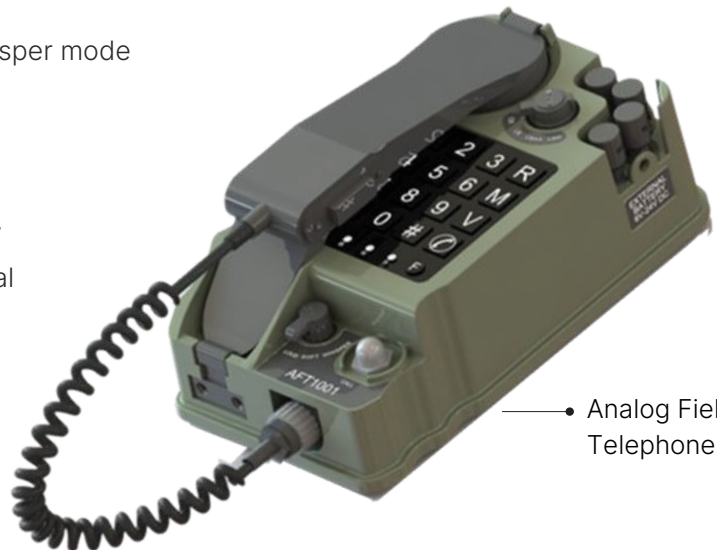
CB auto telephone with DTMF or Pulse dialling facility from built-in keypad.

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

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



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SPECIFICATIONS

Line / Transmission

- Impedance (@1KHz) : 600
- Transmission length : Up to 30 km in LB mode using standard field cable WD1-TT (or equivalent) Up to 10 km in CB mode Up to 15 km in CBS mode
- 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

- Frequency range : 300 - 3400 Hz
- Microphone : Dynamic
- Speaker : 1000 Ω impedance
- 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)

- Min. voltage : > 90V (at no load)
- Frequency : 25Hz $\pm$ 2Hz

Environmental Data

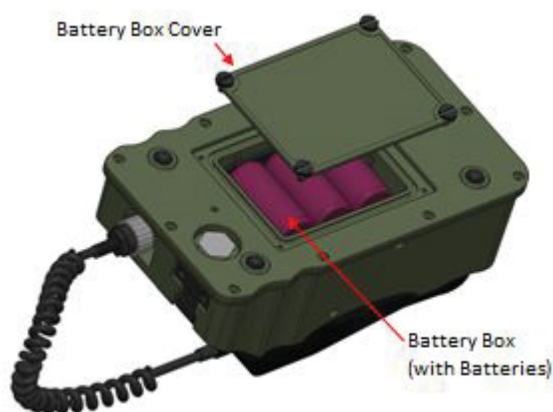
- Operating Temperature : -30°C to +60°C
- Storage Temperature : -40°C to +70°C
- Relative Humidity : 95 % (+50°C)
- Rain : 100 mm/hour

References

- MIL-STD-810G : Temperature & Mechanical Stress
- MIL-STD-461E : EMI/EMC
- EN-61000-4-2 : ESD
- EN-61000-4-5 : Lightening

Reliability

- MTBF : > 85,000 hours



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