

# Walkie Talkie (5W) AE-WP02

Made in India from Component Level

## APPLICATION AREAS

- Army
- Defence
- AAI
- Malls & Warehouses
- Hotels
- Hospitals
- Recreation and Leisure Centres
- Construction Sites
- Security Agencies
- Factories
- Police
- Fire Stations
- Refineries
- Emergency Signaling
- RWAs
- Sports Centre and Stadiums
- Schools and Colleges
- Farms
- Event Organisers
- Power Generation Companies



MIL STD 810 F Compliant

### Configuration as per DGS&D Specs VH1

- ◆ Simple Press to talk
- ◆ Protection against high VSWR
- ◆ CTCSS
- ◆ Low Battery Alert

### Configuration as per DGS&D Specs VH2

- ◆ Simple Press to talk
- ◆ Protection against high VSWR
- ◆ Low Battery Alert
- ◆ Capable of VOX for hands-free operation
- ◆ PTT ID Encode
- ◆ CTCSS or DCS
- ◆ Busy Channel Lockout
- ◆ Channel Scanning with call quieting facility
- ◆ Any one of 2Tone / 5Tone / DTMF signaling

### Configuration as per DGS&D Specs VH3

- ◆ Simple Press to talk
- ◆ Protection against high VSWR
- ◆ Low Battery Alert
- ◆ Capable of VOX for hands-free operation
- ◆ PTT ID Encode
- ◆ CTCSS or DCS
- ◆ Busy Channel Lockout
- ◆ Channel Scanning with call quieting facility
- ◆ Any one of 2Tone / 5Tone / DTMF signaling
- ◆ Selective Call Decode
- ◆ Any one of 2Tone / 5Tone / DTMF / Digital Signaling
- ◆ Capable of being Killed / Unkilled

# Walkie Talkie (5W) AE-WP02

## GENERAL

1. Frequency Range: 136-174 MHz (split band or full band)
2. No. of Channels: 16 channels or more channels 1 & 3 should be programmed to cover end frequencies and channel 2 for the mid frequency of the quoted frequency spread. Remaining channels should also be programmed to cover the quoted frequency spread
3. Channel Spacing: 12.5 KHz
4. Frequency spread: 5 MHz or more without degradation in Tx/Rx specification
5. Frequency Stability: 5 PPM or better
6. Type of Emission: 11 KOF3
7. Type of Operation: Simplex, press to talk with built in condenser mic. and speaker
8. Type of Antenna: Helical Antennas suitable for the frequency spot specified in supply order
9. Speaker Impedance: To be specified by the firms both at internal and external speaker point
10. Output Impedance / Terminations: 50 Ohms and the aerial terminal should have BNC female socket or appropriate adapter should be provided with the sets for DCPW for testing / evaluation
11. Protection:
  - (i) Reverse polarity protection should be provided
  - (ii) The final transistor should be protected against high VSWR
12. Weight: 600 g Max with battery
13. Power Source: Minimum 1400 mAh 7.2 V / 7.4 V, Ni-Mh or Li-ion or Li-Polymer Battery
14. Voltage: Test voltage to be indicated by the tenderers

## TRANSMITTER

1. RF Power Output: 1 W / 5 W +/- 0.5 dB switchable / programmable
2. Frequency Deviation +/- 2.5 KHz Max. (100% at 1 KHz) for 12.5 KHz channel spacing
3. Modulation Sensitivity: 1 to 10 mV at 1 KHz at mic. input for (+/-) 1.5 KHz (for 12.5 KHz channel spacing) standard deviation
4. Modulation Distortion: Less than 5% at 1 KHz reference for (+/-) 1.5 KHz (for 12.5 KHz channel spacing) standard deviation
5. Modulation Fidelity: +1, -3 dB of 6 dB / Octave pre-emphasis characteristics from 350 Hz to 2700 Hz with 1 KHz as reference
6. Spurious & Harmonics Suppression: Better than 60 dB
7. VSWR: Better than 1.5

## RECEIVER

1. Sensitivity: 0.30 micro V for 12 dB SINAD
2. Squelch Sensitivity: 0.25 micro V or better at threshold
3. Selectivity: Better than 60 dB
4. Image Rejection: Better than 65 dB
5. Audio Output : 250 mW / 500 mW with less than 5% distortion at 1 KHz reference measured at specified AF output
6. Audio Response: +1, -3 dB of 6 dB / Octave de-emphasis characteristics from 350 Hz to 2700 Hz with 1 KHz as reference Feature wise Configurations



**AE Telelink Systems Ltd.**

**Regd. Off.:** 106, Rakeshdeep, Gulmohar Enclave Commercial Complex, New Delhi - 110049 (INDIA)

Tel: +91 - 11 - 41643059 Fax: +91 - 11 - 41841516 E-mail: catchall@aetelelink.com Website: www.aetelelink.com

**Mkt. Off.:** 1005, Ansal Tower-38, 10th Floor, Nehru Place, New Delhi - 110019 (INDIA) Tel: +91 - 11 - 41003644, 8010403042

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