

NRC ATEX VHF **(ATEX version) Technical Specifications**

1. General

- 1) Frequency range : 136 ~ 174 MHz
- 2) Channels : 255 Channels
- 3) Channel spacing : 12.5 kHz/25 kHz
- 4) Communication method : Simplex
- 5) Antenna Impedance : 50 ohm
- 6) Antenna : Helical Antenna
- 7) Power supply voltage : LI-1350mAh Li-Ion battery pack(Voltage: 7.4V DC)
- 8) Current Drain :
 - When Transmitting(2W) - < 1.2A
 - When Receiving(0.5W) - < 300mA
 - Receiver standby - < 80mA
- 9) Microphone : Internal Condenser Microphone(External Speaker Micro phone is available)
- 10) Operating temperature range: -20°C ~ +45°C
- 11) Size : 54(W)x114(H)x30(D)
- 12) Weight : 285g (with 1350mAh Li-Ion battery pack)
- 13) Marking: ATEX: II2G Ex ib IIC T4 (-20°C to +45°C)
IECEX: Ex ib IIC T4

2. Transmitter

- 1) Power Output : 2W
- 2) Modulation : 8K5OF3E/16KOF3E
- 3) Oscillator method : PLL
- 4) Frequency Stability : less than $\pm 0.00025\%$ (± 2.5 PPM)
- 5) Maximum frequency deviation: ± 2.5 kHz(Narrow)/ ± 5 kHz(Wide)
- 6) Audio Distortion : less than 5% (1 kHz 60%)
- 7) SPURIOUS Emission : -36 [dBm]
- 8) FM Hum & Noise : -40 [dB] (HP8920A 300Hz ~ 3kHz BPF)

3. Receiver

- 1) Receiver Type : Double Super Hetero type
- 2) Sensitivity : < -0.25uV (12dB SINAD)
- 3) Frequency Stability : $\pm 0.00025\%$ (± 2.5 PPM)
- 4) SPURIOUS Rejection : -70 dB
- 5) Adjacent Channel Selectivity: -60 dB (Narrow) , -70 dB (Wide)
- 6) Distortion : 5% (1 kHz 60%)
- 7) Hum & Noise : -40 dB(HP8920A 300Hz ~ 3kHz BPF)
- 8) Audio output : 1000 mW
- 9) Speaker size : 45 pi

NRC ATEX UHF **(ATEX version) Technical Specifications**

1. General

- 1) Frequency range : 403 ~ 470 MHz
- 2) Channels : 255 Channels
- 3) Channel spacing : 12.5 kHz/25 kHz
- 4) Communication method : Simplex
- 5) Antenna Impedance : 50 ohm
- 6) Antenna : Whip Antenna
- 7) Power supply voltage : LI-1350mAh Li-Ion battery pack(Voltage: 7.4V DC)
- 8) Current Drain :
When Transmitting(2W) - < 1.2A
When Receiving(0.5W) - < 300mA
Receiver standby - < 80mA
- 9) Microphone : Internal Condenser Microphone(External Speaker Micro phone is available)
- 10) Operating temperature range: -20°C ~ +45°C
- 11) Size : 54(W)x114(H)x30(D)
- 12) Weight : 285g (with 1350mAh Li-Ion battery pack)
- 13) Marking: ATEX: II2G Ex ib IIC T4 (-20°C to +45°C)
IECEX: Ex ib IIC T4

2. Transmitter

- 1) Power Output : 2W
- 2) Modulation : 8K5OF3E/16KOF3E
- 3) Oscillator method : PLL
- 4) Frequency Stability : less than $\pm 0.00025\%$ (± 2.5 PPM)
- 5) Maximum frequency deviation: ± 2.5 kHz(Narrow)/ ± 5 kHz(Wide)
- 6) Audio Distortion : less than 5% (1 kHz 60%)
- 7) SPURIOUS Emission : -36 [dBm]
- 8) FM Hum & Noise : -40 [dB] (HP8920A 300Hz ~ 3kHz BPF)

3. Receiver

- 1) Receiver Type : Double Super Hetero type
- 2) Sensitivity : < -0.25uV (12dB SINAD)
- 3) Frequency Stability : $\pm 0.00025\%$ (± 2.5 PPM)
- 4) SPURIOUS Rejection : -70 dB
- 5) Adjacent Channel Selectivity : -60 dB (Narrow) , -70 dB (Wide)
- 6) Distortion : 5% (1 kHz 60%)
- 7) Hum & Noise : -40 dB(HP8920A 300Hz ~ 3kHz BPF)
- 8) Audio output : 1000 mW
- 9) Speaker size : 45 pi

<Programmable Functions>

1. Graphic LCD
2. Channel Name Setting
3. Emergency Alert
4. Lone Worker
5. Missed Call List
6. Individual / Group Call
7. Status Call
8. Stun / Unstun
9. Scrambler
10. Low Battery Alert
11. Power Save Control
12. Message Displays with Power-on
13. Channel Scan
14. Priority Channel Scan
15. Programmable Option Buttons
16. Password
17. Group Channel Setting
18. LED Indicator
19. Button Sound on/off
20. Squelch Level (10 levels), Auto SQ
21. Reset
22. Per CH Monitor
23. Repeater / Talk Around
24. BCLO (Busy Channel Lock Out)
25. TOT (Time Out Timer)
26. VOX
27. Power Output Level (L/M/H)
28. Simultaneous Use with Internal and External Microphone
29. DTMF
30. CTCSS Encode / Decode (User Tone)
31. CDCSS Encode / Decode (User Tone)
32. Hearing Preservation (Earphone)
33. Microphone Gain
34. Key Lock
35. Roger
36. Compander
37. LCD Contrast
38. Information

- . S/W Version Display
- . A/S Center Tel Display
- . Battery Voltage Display