

GRH

Tactical Repeaters

15 to 50 Watts RF Power
136-174 MHz or 403-470 MHz
In-Band or Cross Band
Local Control



Tactical Repeaters from BK Radio

The GRH Tactical Repeater is available in VHF, UHF or Crossband configurations. PC programmability, built-in CTCSS/CDCSS and all the standard features of the BK Radio mobile radios plus an optional built-in AC power supply make the GRH a powerful tool in field operations interagency communications. 12.5/15 kHz and 25/30 kHz channel spacing. (VHF Modules only)





FEATURES

| | |
|---|-----------------|
| Channels | 240 VHF/114 UHF |
| Enhanced User CG | INCL. |
| Code Guard Squelch (CTCSS & CDCSS) | INCL. |
| Time Out Timer | INCL. |
| Vacuum Fluorescent Alphanumeric Display | INCL. |
| Frequency Display | INCL. |
| User Select Scan | INCL. |
| Dual Priority Scan | INCL. |
| Busy Channel Lockout | INCL. |
| Busy Channel Indicator | INCL. |
| DTMF/AN | INCL. |
| Talk-back Scan | VHF Modules |
| Interstitial Frequency Capability | VHF Modules |

GENERAL

| | |
|---------------------------|--|
| Frequency Range - MHz | 136-174 / 403-470 |
| Primary Power Input: | |
| Receive Only @ 13.8V-Amps | 1.5 |
| Transmit @ 13.6V-Amps | 17.5 |
| Standby @ 13.8V-Amps | 1.0 |
| Operating Temperature - C | -30 TO +60 |
| Size W x D x H - inches | 8.25 x 11.5 x 8.25 |
| Weight lbs. max. | 13.5 |
| Stability - PPM | - +5 |
| Channel Spacing - kHz | 25/30 and 12.5/15 (VHF) 25/30 (UHF) |
| Antenna Connector | MINI UHF |

FCC ID#K95GMH599(VHF)/ASY90QLT30003(UHF)

Specifications subject to change without notice.

Measurements made in accordance with applicable TIA/EIA standards.

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TRANSMITTER

| | VHF | UHF |
|----------------------------------|--------------------|--------------------|
| RF Output Power - Watts | 15 to 50 | 10 to 40 |
| Operating Frequency Spread - MHz | 38 | 67 |
| Modulation | 16KOFXE 16KOF3E | 15K0F2D 16K0F3E |
| Spurious and Harmonics - dB | 80 | 75 |
| Hum and Noise - dB (per TIA) | 50 | 45 |
| Audio Distortion - % | 3 | 3 |
| Antenna Output Impedance - Ohms | 50 | 50 |
| Audio Response (per EIA) dB | +1/-3 | +1/-3 |

RECEIVER

| | VHF | UHF |
|--------------------------------------|-------|-------|
| Sensitivity: 12 dB Sinad - m | .28 | .35 |
| Frequency Spread - MHz | 38 | 67 |
| Selectivity - dB | 75 | 75 |
| Spurious including Image - dB | 80 | 80 |
| Intermodulation - dB | 75 | 73 |
| Max. Audio Output - Watts (5% dist.) | 4 | 4 |
| Audio Frequency Load - Ohms | 3.2 | 3.2 |
| Input Impedance - Ohms | 50 | 50 |
| Audio Response (per EIA) dB | +1/-3 | +1/-3 |

STANDARDS (Applies to individual modules only)

Designed to meet the following military standards.

| MIL-STD | 810D | 810E | | |
|------------------|--------------|--------------|--------------|--------------|
| | <i>Mtbd.</i> | <i>Mtbd.</i> | <i>Proc.</i> | <i>Proc.</i> |
| Low Pressure | 500.2 | 1 | 500.3 | 1 |
| High Temperature | 501.2 | 1 & 2 | 501.3 | 1 & 2 |
| Low Temperature | 502.2 | 1 & 2 | 502.3 | 1 & 2 |
| Temp. Shock | 503.2 | 1 | 503.3 | 1 |
| Solar Radiation | 505.2 | 1 | 505.3 | 1 |
| Rain | 506.2 | 1 & 2 | 506.3 | 1 & 2 |
| Humidity | 507.2 | 2 | 507.3 | 2 |
| Salt Fog | 509.2 | 1 | 509.3 | 1 |
| Dust | 510.2 | 1 | 510.3 | 1 |
| Vibration | 514.3 | 1 | 514.3 | 1 |
| Shock | 516.3 | 1 & 4 | 516.4 | 1 & 4 |

Unit meets U.S. Forest Service vibration and TIA/EIA-603 specifications.

For authorized personnel, the GBH can be programmed using the RS232 cable and programming software, cloned or via a programming microphone.