

GR1225

Repeater Transceiver Specifications

General			
	VHF		UHF
Programmable Power:	1-10W	25-50W	1-10W 25-45W
Model Series:	M03GRC H5165	M43GRC H5158	M04GRC H5164 M44GRC H5157
Frequency Bandwidth:	146-174 MHz		444-474 MHz
Channel Spacing:	Switchable 12.5/20/25/30 kHz		
Frequency Separation:	28 MHz		30 MHz
Channel Capacity:	16 Channels		
Dimensions:	8"H x 10"W x 14"D (203 x 254 x 356 mm)		
Weight:	35 lbs. (15.9 Kilos)		
Duty Cycle:	Continuous @ 25W and 1-10W 50% @ 45/50W (5 min. on/5 min. standby)		
Input Voltage Repeater:	115/230 Vac ± 10%		
Transceiver:	13.8 Vdc ± 10%		
Input Current Repeater:	2.6 Aac (maximum) @ 115 Vac 1.3 Aac (maximum) @ 230 Vac		
Transceiver (@13.8 Vdc)	Standby: 0.45 Aac RX@7.5W: 1.5 Aac TX@50/45W: 14.0 Aac 12.5 Aac		
Squelch Code Capabilities:	TPL/DPL/CSQ		

Transmitter			
	VHF		UHF
RF Output:	1-10W	25-50W	1-10W 25-45W
Frequency Stability:	±2.5 ppm (-30C to +60C)		±1.5 ppm (-30C to +60C)
Spurs/Harmonics:	-23 dBm	-23 dBm	-23 dBm -23 dBm
Audio Response:	TIA603 (From a 6 dB/Octave Pre-emphasis 300 to 3000 Hz)		
Audio Distortion:	<3% EIA (@ 1000 Hz 60% rated Maximum Deviation)		
Modulation Sensitivity:	80 mV (rms for 60% deviation @ 1000 Hz)		
FM Noise:	12.5 kHz -40 dB	20/25/30 kHz -45 dB	12.5 kHz -40 dB 20/25/30 kHz -45 dB
FM Modulation:	11K0F3E	16K0F3E	11K0F3E 16K0F3E
FCC Designation:	ABZ99FT3024	ABZ99FT3023	ABZ99FT4024 ABZ99FT4023

Receiver			
	VHF		UHF
Sensitivity - 12dB SINAD:	.35µV (-116.1 dBm)		
Internal Squelch (SINAD)	10 dB nominal setting; Adjustable from off to 20 dB		
Selectivity:	12.5 kHz -65 dB	20/25/30 kHz -85 dB	12.5 kHz -65 dB 20/25/30 kHz -80 dB
Intermodulation:	-80 dB	-80 dB	-80 dB -80 dB
Usable Bandwidth:	1.2 kHz	2.0 kHz	1.2 kHz 2.0 kHz
Spur Rejection:	-85 dB		
Image Rejection:	-80 dB		
Audio Output Internal Speaker:	3 Watts		
External Speaker:	7.5 Watts with 8Ω speaker		
Audio Response:	TIA603 (From a 6 dB/Octave De-emphasis 300 to 3000 Hz)		
Input Impedance:	50Ω		

Typical specifications. All measurements per TIA/EIA-603.

For further information contact:

Conversion Kit for GR400/500

Allows you to use the R1225 transceiver to create a 12.5/25 kHz switchable repeater for rack mount or wall mount applications.



Optional Accessories



Duplexer Can be internally installed to allow a single antenna to be used instead of two separate antennas to transmit and receive simultaneously.



Desk Microphone This converts a desktop repeater into a dispatch radio for office personnel use.

Battery Revert Automatic back-up power allows continued use when power goes down. Also includes float maintenance charger to keep battery charged when not in use.



Portable Carry Case

Allows easy transport for use as a back-up or emergency repeater.

DeskSets

DC or Tone Remote model allows user to control a remotely located repeater.

Extended Local model provides base station control for dispatch operations.

RapidCall model provides the dispatcher with features such as Push-to-Talk ID, Emergency Alarm Decode, Call Alert, Radio Check and Voice Selective Call.

One of the following controllers can be installed inside the repeater to provide enhanced features:

i20R Onsite Repeater Controller Provides up to 10 PL/DPL single code or cross code combinations for multiple group repeater operations, remote knock-down/set-up, uni/bi-directional capabilities and CWID.

ZR310 Multiple Tone Community Repeater Controller Provides up to 50 PL and 20 DPL single code or cross code combinations for multiple group repeater operations with CWID and enhanced community repeater operation capabilities.

ZR340 Advanced Interconnect Controller Provides advanced telephone interconnect capability with stored telephone numbers, access/override codes, dialing restrictions, call timers, direct-air access and CWID.

i750R Advanced Selective Calling Interconnect Controller Provides revertive PL/DPL/Quik-Call II/MDC-1200 group or individual selective calling, CWID and advanced interconnect capabilities.



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