

Multitone Low Power Repeater



The Multitone Low Power Repeater is designed to ensure indoor coverage and network continuity by extending and filling-in poorly covered areas serviced by your alerter or paging network.

The Multitone Low Power Repeater, supporting POCSAG is designed for people encountering alerter or paging coverage problems typically in buildings in both urban and outlying rural locations and is designed to receive and re-transmit 'all messages' and or 'selective messages' to extend the range provided by the Multitone alerter or other paging network transmitters.

The Multitone Low Power Repeater is fully synthesized and available in UHF and VHF frequencies, easily set-up and installed and supplied with a 230/5Vac Power Supply Unit with mains flex to a 3-pin socket or fused spur supplied. The Multitone Low Power Repeater supports three function modes:

- Full repetition - all RIC codes and POCSAG messages received will be re-transmitted
- Repetition by list - only pre-programmed RIC codes and related POCSAG messages will be re-transmitted and potentially supports up to 62,000 RIC addresses
- Repetition by prefix - only RIC codes beginning with a preprogrammed prefix or prefixes are re-transmitted, with the ability to supporting up to 62,000 RIC addresses

The Multitone Low Powered Repeater includes a 230Vac/115Vac Power Supply Unit giving a 12V DC output. To ensure reliable operation, transient, overload and overheat circuit protection is included and supplied in a separate a rugged, corrosion resistant anodised aluminum extrusion. Using low mass surface mount technology, components offer excellent shock and vibration resistance.

A fixed voltage battery charging facility is also available with the supplementary loom; P/N AD BB loom.

Technical Data

Radio General		
Frequency stability	±0.5ppm -30°C to 60°C	
Channel spacing	6.25/12.5/15/20/25/30kHz	
Frequency increment/channel step	2.5/3.125/5/6.25kHz	
Operating temperature	-30°C to 60°C	
Power supply	DC:10.8-16VDC,AC:Desk top PSU- 100 to 130V or 200 to 250V	
Transmitter	VHF	UHF
Frequency range:	136-174MHz 174-225MHz	320-380MHz 378-470MHz 400-470MHz 450-520MHz
Output power:	25W, 10W, 5W, 1W	25W, 10W, 5W, 1W
Input current:		
- Standby Current	0.1A	0.1A
- Output	5.5A	5.5A
- ETS 300-113		
Duty cycle	25W: 2min Tx, 4min Rx for 8 hrs at +60°C, 5W: continuous at +40°C	
Receiver	VHF	UHF
Frequency range:	136-174MHz 174-225MHz Multitone Low Power Repeater	320-380MHz 378-470MHz 400-470MHz 450-520MHz
Sensitivity (DMR) 5%BER	-119dBm(0.25V)	
Power Supply Unit		
Input voltage range	Auto-Select, 85–135Vac and 170–265Vac, 50/60Hz	
Output voltage options	13.6Vdc, (Worst case limits are +/- 4%)	
Normal operating temperature	-25°C to +30°C to meet this specification table +30°C to +70°C de rate linearly to 0A	
Storage temperature	-25°C to +100°C	
Operating humidity	95% max, non-condensing	
Safe area protection:	<ul style="list-style-type: none"> - Limited by current sensing circuit - Limited by temperature sensing circuit - Protected by filters and rugged component selection - Protected by internal input and output fuses 	
PSU Approvals	2014/30/EU The general EMC directive 2014/35/EU The low voltage directive 93/68/EEC The CE marking directive	
Designed to	EN60950, EN55022, EN61204-3	
Cabinet General		
Dimensions	380mm x 600mm x 210mm	
Weight	19Kgs	
Operating Temperature	50°C	
Approval	CE Approved	

Contact Multitone for more details ; info@multitone.com or 01256320292

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