



AE Transcom Private Ltd

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AETR09 REPEATER

Brand: Radiocom

SPECIFICATIONS



Model No-AETR09

GENERAL	parameters	Specification
1.1	Frequency Range	VHF / UHF (organisation may specify)
1.2	TDMA	2-Slot
1.3	Operating Mode	Dual Standard (Digital and Analog)
1.4	Operating Selection	Fully automatic for Analog and Digital
1.5	Channel Capacity and Spacing	16 or more / 12.5 KHz
1.6	Operating Voltage	11.25 VDC and 230 VAC \pm 10% , 50Hz
1.7	Frequency Stability	1 PPM or better
1.8	Interface	Ethernet Port for IP connectivity
1.9	Antenna Impedance	50 Ω
1.10	Duty Cycle	100%
1.11	Display	Indicator for transmit & Receive
1.12	Weight	less than 15 kg
1.13	VSWR	Better than 1.5
1.14	Protection	Reverse Polarity
1.15	EMI/EMC	ETSIEN 301 489-1 & ETSI 301 489-5
1.16	Air Interface Standards	Shall be open standards DMR Tier -II
1.17	SFR	YES
1.18	RECORDER	YES

TRANSMITTER	Parameter	Specification
2.1	RF Power Output	25 to 50 Watts (programmable)
2.2	FM Emission	11K0F3E, 7K60FXE, 7K60FX, 7K60FXW
2.3	Digital Modulation	4FSK
2.4	Modulation Limiting	±2.5 KHz @ 12.5 KHz
2.5	FM Hum & Noise	-40 dB or better
2.6	Adjacent Channel Power	-60 dB or better
2.7	Audio Response	+1, -3 dB
2.8	Audio Distortion	Less than 3 %
2.9	Communication Security (Optional)	System should have in built encryption and should also have provision to support 3rd party Encryption.
RECEIVERS	Parameter	Specification
3.1	Sensitivity (Analogue)	0.30 µV (12 dB SINAD) or better
3.2	Sensitivity (Digital)	0.30 µV at 5% BER or better
3.3	Image Rejection	65 dB or better
3.4	Intermodulation	70 dB or better
3.5	Adjacent Channel Selectivity	60 dB or better
3.6	Audio Distortion	Less than 3%

ENVIRONMENTAL		Parameter	Specification
	4.1	Operating Temperature	-30°C to +55°C
	4.2	Storage Temperature	-40°C to +70°C
	4.3	Humidity	95% Max at + 40°C, non-condensing

ACCESSORIES		Parameter	Specification
	5.1	Battery cable & Mounting fixtures	Should be supplied with Repeater
	5.2	Antenna	6 dB gain omni-directional antenna with 45 mtr RF cable RG-217 for base station will be provided as per user's requirements
	5.3	Programming Kit	All necessary softwares and hardware required for programming of the set independently. software must support latest windows OS.
	5.4	Literature	a) User manual with each radio sets should be provided free of cost in soft as well as hard copy. b) Technical repairing & maintenance manual with complete block diagram in soft as well as hard copy.

FULLY COMPLIANT WITH MHA SPECIFICATIONS

- Fully compliant with Ministry of Home Affairs (MHA) specifications:
- Letter No. H-18026/1(TS&TD)/2016-CDN, Govt. of India, Directorate of Coordination, Police Wireless, dated 17th January 2018.

MAKE IN INDIA

- Classified under Make in India – Class 1 Category
- Manufacturing from Component level.
- SMT Operations will be in India.
- All components sourced from countries in compliance with Ministry of Finance Office Memorandum No. F.18/37/2020-PPD, dated 8th February 2021.

NOTE - Whenever there is a difference in parameters between Home Ministry Specs and Tender Specs, the Home Ministry Specs will prevail.

