

The VLF/eentec AR-9 is a **reliable, rugged, low power, field telemetry receiver**. The design features frequency synthesized operation over a 10Mhz range. Frequency band within a specific 10Mhz range must be specified at time of order. Minor frequency changes less than 100Khz, can be made by the user by changing dipswitch positions.



AR-9 Free Standing Configuration

The AR-9 is completely compatible with Monitron radios and can be used as direct replacements in existing telemetry networks. In new networks, the unit receives data transmitted from the AT-9 field telemetry transmitter.

The unit is housed in an anodized aluminum case. It has a standard pin-out twist lock connector for power and audio input. The standard input connector is a “N” style with UHF or BNC optional. All connectors are wired to Monitron standard.

Options and accessories include VHF frequency band, rack mounting packaging, radio rack, and Yagi antennas.

AR-9 Low Power Telemetry Receiver

GENERAL

Type:	Synthesized NBFM	
Frequency Ranges: Specify	400-410.235	A band
	410-420.235	B band
	420-430.235	C band
	430-440.235	D band
	440-450.235	E band
	450-460.235	F band
	460-470.235	G band
Minimum Channel Spacing:	5 KHz	
Frequency Stability:	2ppm, -30C to +60C	
Modulation Acceptance:	± 5 KHz	
Input Impedance:	50 ohm	
Sensitivity:	0.25uV (12 db SINAD)	
Selectivity:	-50 db at ±25 KHz	
Image Rejection:	60 dB	
If Filter:	10.7Mhz Ceramic, 455KHz Ceramic	
Frequency response:	300 -3500Hz	
Distortion:	1% or less, 0.6% typical	
Output Impedance:	500 ohm	
Output level:	5Vp-p Maximum	
Operating Voltage:	12 V nominal, 11 to 14.5VDC	
Operating Current:	45mA (depends on output level)	

PHYSICAL

Size:	7" x 4" x 2" (free standing)
Case:	anodized aluminum
Operating Temperature Range:	-30C to +60C
Operating Humidity:	0-95% RH (Non Condensing)

CONTROLS AND CONNECTORS

Controls:	Squelch, Output level (pots)
Power and modulation mating connector:	PT06-8-4S Pin A: Power, Pin B Audio Output, Pin C and D Ground
Antenna connection:	Type "N" (others available)



AR-9 Rack Mount Configuration

Specifications subject to change without notice

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