

The VLF/eentec AT-9 is a *reliable, rugged, low power, field telemetry transmitter*. 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.



Another useful feature of the AT-9 is the high efficiency, well-filtered internal power module that allows the user to adjust the output power from 100mW to 2W.

Typical transmission distance for a line - of-sight link is 100Km. Farther distances can be achieved with a 2W transmitter.

The AT-9 is completely compatible with Monitron radios and can be used as direct replacements in existing telemetry networks. In new networks, the unit transmits data from the PTSbg-x field telemetry instruments.

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 output connector is a “N” style with UHF or BNC optional. All connectors are wired to Monitron standard.

Voltage input is between 12VDC to 14.4VDC. The AT-9 contains internal lightning protection circuits for the power and audio inputs.

Options and accessories include VHF frequency band, ¼ wave shorting stub for lightning protection on the RF line, external power supply if the unit is installed long distances from the field telemetry unit, and Yagi antennas.

AT-9 Low Power Telemetry Transmitter

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	
Output power:	100mW to 2W adjustable	
Output Impedance:	50 ohm	
Harmonics:	-58dB below carrier	
Spurious:	-65dB or better	
Audio Input Level:	1 Vrms for full deviation	
Modulation Frequency Response:	300 -3500Hz	
Modulation:	True FM, no pre-emphasis	
Modulation Input:	2K ohm, single ended	
Modulation Distortion:	0.1% or better	
Deviation:	±5 KHz, internally adjustable with limiter	
Operating Voltage:	12 V nominal (14.5 v MAX)	

PHYSICAL

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

CONTROLS AND CONNECTORS

Controls:	Power output (15turn pot)
Power and modulation mating connector:	PT06-8-4S Pin A: Power, Pin B Audio Input, Pin C and D Ground
Antenna connection:	Type "N" (others available)



Specifications subject to change without notice

625 N. Euclid Ave., Suite 404, St. Louis, MO 63108

Tel: 314-454-9977

Fax: 314-454-9979

email: sales@eentec.com Web Site: www.eentec.com