

# Personal PA™ FM Transmitter, Model PPA T17

## Description:

The PPA T17 transmitter features an audio indicator, audio level adjust and will accept an unbalanced line-level input or a Williams Sound condenser microphone. The T17 transmitter is field-tuneable to 13 wideband channels, and will connect to an existing sound system or it can be used with its own mic (not included). Listeners use PPA R7 receivers to hear clearly and easily from anywhere in the seating area. A remote antenna (ANT 005) and rack mount kit (RPK 004) are also available. The T17 has an operating range of 300-500 ft when used with an R7 receiver.

## Applications:

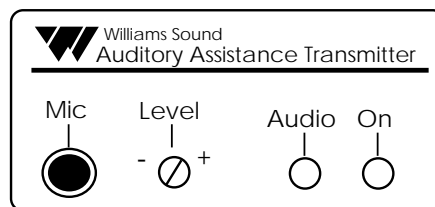
- Theaters • Cinemas • Houses of Worship • Auditoriums
- Classrooms • Stadiums/Arenas • Zoos • Any Place of Public Access

## PPA T17 Transmitter:

Dimensions:	3.25" W x 6.875" L x 1.75" H (82.5 mm x 174.6 mm x 44.5 mm)
Weight:	13 oz, 368.5 g
Color:	Black epoxy paint with white legends
Power (U.S./Canada):	105-130 VAC, 50-60 Hz, 0.5 W with TFP 008 power supply
Operating Freq's*:	72.1 (CH A), 72.3 (CH B), 72.5 (CH C), 72.6 (CH O), 72.7 (CH D), 72.8 (CH P), 74.7 (CH I), 75.3 (CH J), 75.4 (CH R), 75.5 (CH F), 75.7 (CH G), 75.9 (CH H), 72.9 (CH E) is standard*
Frequency Selector:	Internal switches, 13 channels
RF Field Strength:	8000 µV/m at 30 m Max., 20 mW typical
Nominal Range:	300-500 ft (90-150 m)
Modulation:	75 kHz (wide-band) max.
Stability:	± .005% over 0-50° C
Pre-Emphasis:	75 µS
Frequency Response:	100 Hz-15 kHz, ± 3 dB with PPA R7 Receiver
Signal-to-Noise Ratio:	55-60 dB with R7 Receiver
Distortion:	1% max. THD
Audio Processor:	Fast-attack, fast decay compressor
Operating Requirements:	0-50° C ambient temperature, non-condensing, non-corrosive atmosphere
Approvals:	FCC, DOC
FCC ID:	CNMT17
Warranty:	5 years, parts and labor (90 days on accessories)

\*Note: FCC rules limit the use of the 72-76 MHz band to auditory assistance for the handicapped. Specific transmitter model names contain a frequency code. For example, Model T17E is preset to channel E, 72.9 MHz.

## PPA T17 Front Panel

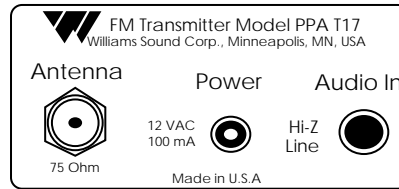


Mic Input:	3.5 mm mini phone jack for use with Williams Sound condenser microphones. Supplies +DC power for condenser/electret microphones.
Mic Input Level:	1-10 mV, nominal
Level Control:	Rotary potentiometer, screwdriver-adjust control used to set the microphone input level or the audio input level
Audio Indicator Light:	Yellow LED, flashes when audio signal is present
ON Indicator Light:	Green LED, glows when power is applied to the transmitter. There is no on/off switch. The T17 is designed to be left on continuously.

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

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## PPA T17 Rear Panel



Line-Level Input:	RCA Jack, Hi Z, unbalanced, 100 K $\Omega$ input impedance
Line Input Level:	100 mV min. to 1.0 V max., .5 Vrms nominal
Antenna Output Connector:	This connector is defeated, as specified by FCC Rules. To use the ANT 005 remote antenna, contact your dealer or Williams Sound.
Antenna Outputs:	Thread Mount for "rubber duckie" flexible whip antenna, optional 75 $\Omega$ Coaxial Antenna (ANT 005) uses RG-59 cable, 400 ft (140 m) max. cable length
Antenna Mounting Stud (Top Panel):	For use with the "rubber duckie" type antenna supplied
Power Input Jack:	Connects to the plug on the wall transformer power supply 12 VAC, 100 mA

## Bid Specs:

The FM transmitter shall be contained in a black, rack-mountable, metal enclosure. A rack panel shall be available to mount up to four transmitters within a single EIA rack space.

The transmitter shall provide single-channel operations at the following frequencies, selectable by internal switches: 72.1, 72.3, 72.5, 72.6, 72.7, 72.8, 72.9, 74.7, 75.3, 75.4, 75.5, 75.7, or 75.9 Mhz. Frequency modulation shall be no more than 75 kHz. Frequency stability shall be  $\pm .005\%$  over 0-50° C. Pre-emphasis shall be 75  $\mu$ S. Frequency response shall be 100 Hz-15 kHz  $\pm 3$  dB, with a maximum distortion of 1% THD. The signal-to-noise ratio shall be 55-60 dB as measured with a PPA R7 Receiver. The transmitter shall provide a nominal range of 300-500 feet (90-150 m), with a maximum RF field strength of 8000  $\mu$ V per meter at 30 meters, 20 mW typical.

The transmitter shall have a microphone input and line-level input. The microphone input shall be a 3.5 mm mini phone jack supplying positive DC power for electret mics. The mic input level shall be 1-10 mV, nominal. The line-level input shall be a HiZ, unbalanced RCA jack with an input level of 0.1-1 Vrms, nominal. The transmitter shall have a pot-style, screwdriver adjustable input attenuator. The transmitter shall have two antenna outputs. The first shall be a thread mount for a "rubber duckie" flexible whip antenna. The second shall be a thread mount for an optional 75 1/2 coaxial antenna using RG-59 cable. The maximum cable length of the optional coaxial antenna shall be no more than 400 ft (140 m). The transmitter shall be powered by an external 105-130 VAC, 50-60 Hz, .5 W power supply, connected via a concentric DC plug. The transmitter should not have a power switch. The transmitter shall have a LED lamp to indicate "power on." The transmitter shall also have a LED lamp to indicate the presence of an audio signal. The transmitter shall carry a five-year parts and labor warranty. The transmitter shall be the Williams Sound Corp. model PPA T17.

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