

# Personal PA<sup>®</sup> FM Transmitter, Model PPA T35

## Description:

The T35 transmitter features a sleek LED digital display, powerful microprocessor and easy-to-use push-button controls. Setting up the T35 is a snap, even for the novice audio user: quickly choose between Voice, Music or Hearing Assistance in the Application Preset menu. The T35 configures itself to the appropriate setting—taking the guesswork out of complicated audio installation. Operating up to 1000 feet, the T35 is ideal for auditoriums, theaters, or other large venues where excellent coverage area is essential.

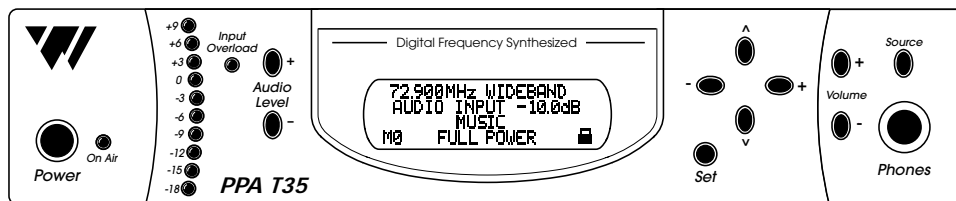
## Applications:

• Churches • Schools • Auditoriums • Conference Rooms • Theaters

### PPA T35 Transmitter

<b>Dimensions, Weight:</b>	8.45" (21.5 cm) W x 8.18" (20.8 cm) D x 1.72" (4.4 cm) H, 3.1 lbs (1.4 kg)
<b>Color:</b>	Black with white legends
<b>Rack Mount:</b>	One EIA rack space high, 1/2 space wide 1-2 units can be mounted in a single rack space with optional RPK 005 (single) or RPK 006 (double) Rack Mount Kits
<b>Power:</b>	Wall mount Class II transformer (TFP 016) Input: 120 VAC, 60 Hz, 17 W Output: 24 VAC, 500 mA with 3-pin Molex <sup>®</sup> plug Approvals: UL, CSA listed
<b>Temperature Range:</b>	Operating: 0° C to 40° C (+32° F to +104° F) Storage: -20° C to 70° C (-4° F to +158° F)
<b>FCC ID:</b>	CNMT35
<b>Operating Freqs:</b>	72.1-75.9 MHz, 10 wideband channels (selectable), 7 non-standard wideband channels (selectable) OR 72.025-75.975 MHz, 77 narrowband channels (selectable)
<b>Frequency Accuracy:</b>	±.005% stability, 0-50° C
<b>Deviation:</b>	Wideband: ± 75 kHz maximum. Narrowband: ± 5 kHz maximum.
<b>Pre-Emphasis:</b>	Wideband: 75 µsec. Narrowband: 300 µsec
<b>RF Field Strength:</b>	Does not exceed 8 mV/m at 3 m
<b>Nominal Range:</b>	Up to 1000 ft (304 m) Note: Maximum transmitter range is achieved using the ANT 005 coaxial antenna
<b>Audio Proc. Functions:</b>	Reduced or Normal Compressor Gain Compression Slope Control High Pass and Low Pass Filter Frequency control
<b>Frequency Response:</b>	22 – 16000 Hz, +1, -3 dB (adjustable)
<b>Signal-to-Noise Ratio:</b>	74 dB transmitted

## T35 Front Panel

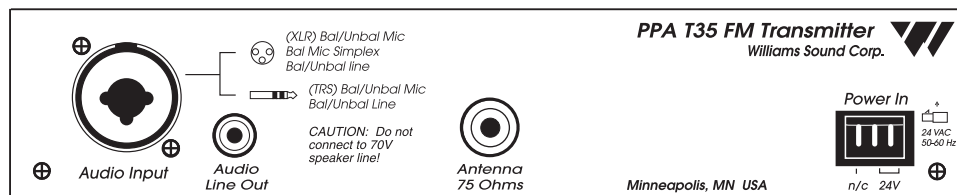


<b>Audio Level Control:</b>	Push-button audio level controls, adjustable to 0 to -50 dB
<b>Audio Level Indicators:</b>	10 LED array that reads +9 to -18 at 3 dB intervals
<b>Power On Indicator:</b>	Green LED indicates power on
<b>Phones Output:</b>	Mono signal, 1/4" TRS stereo jack, 67 mW, maximum in 50 ohms (adjustable 0 to -40 dB)
<b>Audio Input:</b>	Combination 3-pin XLR, 1/4" TRS jack
<b>Line Output:</b>	RCA jack, -10 dBV (.32 VRMS) output, impedance 100 Ω
<b>LCD Menu Controls:</b>	Applications Presets (Music, Voice, Hearing Assist)
<b>(Push-Button Selection)</b>	Bandwidth, Frequency, Audio Input Source (Microphone, Line, Simplex), High Pass Filter, Low Pass Filter, Compressor Slope, Compressor Gain, RF Output Power

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE!

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## T35 Rear Panel



### INPUT LEVELS (Bal or Unbal):

	Nominal (1st Amber LED)	Maximum (Input Overload LED)	Absolute Maximum Ratings*
<b>Microphone Simplex-Mic:</b>			
Line:	-60dBV (1 mV RMS)	-20 dBV (100 mV RMS)	+20dBV (10.0 V RMS)
<b>Simplex Mode:</b>			
RF "Off" Timer:	12 volts simplex power (DIN 45596) on the 3-pin XLR connector		
Common Mode Rejection:	Turns off RF signal after 1 hour of no audio activity		
Total Harmonic Distortion:	> 57 dB @ 1 kHz, Mic or Line		
Warranty:	< 0.25% @ -10 dB V audio line output, 1 kHz		
	5 years, parts and labor**		

\*Note: Stresses above these ratings may cause permanent damage. Exposure for extended periods may degrade reliability.

\*\*90 days on cords, antenna, power supply and accessories.

## Bid Specs:

The PPA T35 transmitter shall be microprocessor controlled with push button configuration. It shall have an operating range of up to 1000 feet. It shall have 10 wideband and 7 non-standard wideband channels operating on 72.1–75.9 MHz. It shall have 77 narrowband channels operating on 72.025–75.975 MHz.

### Front Panel:

The PPA T35 shall have a push button controlled LCD digital display. There shall be three pre-configured (selectable) application presets: Hearing Assist, Music and Voice. Configurations for Bandwidth, Frequency, Audio Input Source (Microphone, Line, Simplex), High Pass Filter, Low Pass Filter, Compressor Slope, Compressor Gain and RF Output Power shall be push button controlled. The audio level shall be adjustable by push button control. There shall be a 10 LED array showing +9 to -18 at 3dB intervals. The PPA T35 shall have a 1/4" phone jack with push button volume control. It shall have push button control for monitoring source audio or transmitted audio. It shall have an input overload indicator. It shall have a "on" indicator and power button.

### Rear Panel:

The PPA T35 shall be powered by 24 VAC power supply via a 3-pin Molex<sup>®</sup> connector. It shall have a 75 ohm F-connector antenna. It shall have an ANT 025 whip antenna on the top panel directly connected to the circuit board. The transmitter shall have an RCA line output jack. It shall have a combination 1/4" phone/XLR audio input jack. It shall have an RF "Off" timer that turns off RF signal after 1 hour of no audio activity.

The PPA T35 shall have FCC approval and be powered by UL and CSA power supply. It shall have a 5-year parts and labor warranty. It shall be compatible with Williams Sound FM equipment operating on 72-76 MHz. The transmitter shall be a Williams Sound Corp. model number PPA T35.

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