



## Audio Transmission via Power Lines

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### Features

- Micro-size FM transmitter
- FM/PLL signal transmission
- Parametric equalizer
- Scrambled model available
- Long range
- Proven technology
- Smart VOX with noise cancellation



### Options

#### *STANDARD TRANSMITTER MODEL -TXS*

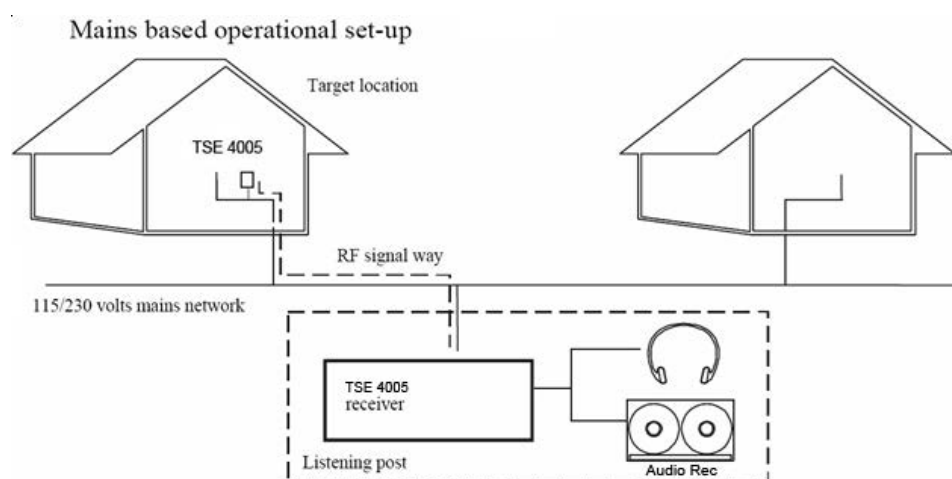
Model -TXS is the standard micro transmitter module with onboard audio circuits.

#### *EXTENDED MICROPHONE MODEL -TXR*

Model -TXR is a module where the miniature microphone element is separated from the transmitter board and mounted on 2 meters of wire, making counter-measure detection extremely difficult.

#### *SCRAMBLED MODULE MODEL -TXS-S AND -TXR-S*

In order to maintain a low probability of detection and to counter casual interception, we have designed a micro-sized circuit for scrambling intelligence audio with minor degrading of the audio quality.



## Technical Specifications

<b>RECEIVER -RX</b>	
Carrier frequency to be specified by customer or standard	140 kHz +/- 500 Hz
Sensitivity (fmod. = 1 kHz, deviation +/- 3 kHz)	- 82 dBm at 20 dB S/N
Sensitivity (fmod. = 1 kHz, deviation +/- 3 kHz)	- 48 dBm at 50 dB S/N
Selectivity - 30 dB	+/- 20.65 kHz
Common mode rejection	70 dB
AM rejection (Vin = - 20 dBm, AMmod = 30 %)	40 dB
Distortion (Vin = - 20 dBm, deviation = +/- 3 kHz)	0.55 %, 1 kHz
Input impedance	275 ohm
Audio frequency response - 3 dB (line out)	300 Hz to 5 kHz
Output voltage line out (deviation = +/- 3 kHz)	700 mV (no load)
Output voltage tel. out (deviation = +/- 3 kHz)	230 mV (600 ohm load)
Output impedance tel. out	600 ohm
Output impedance line out	1 kohm
Output impedance headphones out	47 ohm
Parametric equalizer frequency adjustment range	100 Hz to 10 kHz
Parametric equalizer Q adjustment range	0.4 to 4 kHz
Parametric equalizer gain adjustment range	+/- 15 dB
Meter range RF level	- 80 to -20 dBm
Power supply	115 / 230 VAC (50 - 60 Hz)
Dimensions	265 x 255 x 82 mm
Weight	2.8 Kg. / 6.17 lbs

<b>TRANSMITTER -TXS</b>	
Carrier frequency	140 kHz +/- 500 Hz
Output impedance	10 ohm
Output voltage (140 kHz sine)	500 mV RMS into 10 ohm
Max. modulation	+/- 5 kHz
Frequency response	150 Hz to 3.5 kHz - 3 dB
Current consumption	3 mA DC
Audio amplifier AGC range	< 66 dB
Microphone vibration sensitivity	< 66 dB
Dimensions Model 4005-TXS	42 x 22 x 12 mm
Dimensions Model 4005-TXR	14 x 9 x 7 mm / 42 x 22 x 12 mm
Dimensions Model 4005-TXS-S	14 x 9 x 7 mm / 42 x 22 x 12 mm / 35 x 12 x 4 mm
Dimensions Model 4005-TXR-S	14 x 9 x 7 mm / 42 x 22 x 12 mm / 35 x 12 x 4 mm



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