



# Tone Remote Controls



The TR series tone remote control units are designed to provide control of a remotely located base station or repeater over a voice grade wire pair. The TR series units use the EIA standard sequential tone format which provides 2175 Hz. guard tone, 1950/1850 Hz function tones, 2050 Hz. monitor and 2175 Hz. hold tone. Standard features include: receive and transmit audio compression, front panel transmit, PTT indicator, and 2 watt audio output.

Standard configurations for the DR series are the **TR10**, **TR20**, **TR30**, and **TR40** units. The **TR10** unit is a telephone style remote with a soft touch PTT, monitor and intercom. The **TR20** is a console style remote with desk microphone and includes monitor and intercom as standard features.



The **TR30** is a console style with an internal electret microphone with monitor and intercom standard. The **TR40** is a console style remote with a goose-neck microphone with monitor and intercom standard. The TR series units can be configured to work in almost any tone remote application. In addition to the regular list of options under the specifications section, special encoder and decoder options as well as other custom

configurations may be available depending on your application. Please contact CPI with any requirements that you may have.



# TR Series Specifications

Power Requirements	120 VAC, 60Hz for wall pack operation 220-230 VAC, 50Hz (optional or customer supplied) Transformer output is 12V DC to 16V DC @ 600 mA maximum
Audio output to speaker	2 watts minimum (in compression) into 8 ohms with less than 3% distortion using supplied power pack
Compression	Less than 3 dB increase in output with 30 dB increase beyond threshold of compression.
Line Input	Adjustable, -20 dBm minimum
Frequency Response	+/- 3 dBm from 300 to 3000 Hz. 1000 Hz reference.
Signal to noise	50 dB below operating levels
Line impedance	600 ohms / 5000 ohms - dip switch selectable
Line Output	Adjustable, +15 dBm maximum. Factory set at 0 dBm.
Control Tones	Security tone: 2175 Hz +/- 0.01% @ +10 dBm for 140 mS Function tones: 1950-1850 Hz +/- 0.01% @ 0 dBm for 40 mS Monitor: 2050 Hz +/- 0.01% @ 0 dBm for 40 mS Transmit hold tone: 2175 Hz +/- 0.01% @ -20 dBm for duration of PTT
Dimensions	9" x 4" x 7" / 4lbs.
Connections	4 pin modular for handset. RJ11 for desk microphone and phone pair

## Options

-2F	2 frequency selection - control current is dip switch selectable
-FD	Full duplex operation
-DE	12 key DTMF encoder
-UE1	12 key multi-format encoder
-FS	Foot switch for PTT
-220V	220V AC wall pack transformer
-WM	Wall mount kit
-BLK	Unit color is black instead of ash
-L1/L2	Toggle switch to select between 1 of 2 base radios
-L1/L2/L3	Rotary switch to select between 1 of 3 base radios

