



TRC Series Tone Remote Controllers

Midian Electronics' Tone Remote Controllers enable the dispatcher to remotely control a base station radio via a dedicated phone line, microwave path or telemetry line to a tone remote adaptor such as Midian's TTC-1. The TRC products use EIA and industry standard tone remote function, monitor and guard tones.

Additionally the TRC series offers tone signaling options for controlling and monitoring fleet communications and to identify and stop system abusers. When the field radio keys up a PTT ID or ANI is transmitted. This ID can be displayed on Midian's TRC along with the time alias and status (if applicable).

In addition to decoding and displaying ANI's and Emergency ANI's, Midian's TRC-100, TRC-200 and TRC-300 offer the following encoding features*:

- **Selective Calling:** Enables the dispatcher to call a particular unit or group of units.
- **Radio Kill:** Allows the dispatcher to enable and/or disable a lost, stolen or non-paying field unit.
- **Spy:** Allows the dispatcher to remotely key-up a radio for a predetermined amount of time to eavesdrop or triangulate on a particular field unit.
- **Query:** Informs the dispatcher if a field unit is turned on/off or is decoding properly.
- **Over-The-Air Reprogramming (OTAR):** This feature is only available in the TRC-300 and allows the dispatcher to change the security codes in Midian's TVS-2 and VPU-15 series voice scramblers.

* *The above features require that the radio be capable of the above features or that the radio is equipped with Midian's UD-1B, UED-1B, TVS-2 or VPU-15 series products.*



Shown: TRC-100

Features

New Features: Midian has added several new features to its TRC series tone remote controllers:

- **Enhanced audio performance**
- **2-Watt speaker**
- **Real-time clock (display versions)**
- **Parallel remote update or indication**

Supported Formats: Midian's tone remote controllers can be ordered in any of the following configurations:

- **TRC-1:** Tone Remote with DTMF Dialing (LCD Optional)
- **TRC-100:** Tone Remote with DTMF Encode and Decode
- **TRC-200:** Tone Remote with 5-Tone Encode and Decode
- **TRC-300:** Tone Remote with Midian's Kryptic Encode and Decode
- **TRC-400:** Tone Remote with Harris' G-Star (aka GE-Star) Decode
- **TRC-500:** Tone Remote with Motorola's MDC-1200 Decode
- **TRC-600:** Tone Remote with Kenwood's FleetSync Decode
- **TRC-1000:** Tone Remote with Multi-Format Paging Encoder

Product Quality: Midian believes in and adheres to a strict quality program. This is backed up by Midian's 3-year warranty on parts and labor.





TRC: General Specifications	
Operating Voltage	12-15 VDC
Operating Current	60-200 mA
Operating Temperature	-30 to +60 C
TRC: Signaling Specifications	
MDC-1200 ANI Range	0000-EEEE
MDC-1200 Timing	~180 msec
FleetSync Unit ID Range	1000-3999 (Unit ID Only)
FleetSync Timing	~180 msec
G-Star ANI Range	0001-9999
G-Star Timing	320 msec
DTMF ANI Length	6-digits (maximum)
DTMF Timing	60/40 standard
5-Tone ANI Length	6-digits (maximum)
5-Tone Timing	Varies per format (programmable)
Kryptic ANI Range	0000-9999
Kryptic Timing	150 msec
Emergency ANI	Yes

TRC: General Specifications		
Tone	Frequency*	Level & Duration
High-Level Guard Tone	2175 Hz	10 dBm for 120 msec
Low-Level Guard Tone	2175 Hz	-20 dBm continuous
Monitor	2050 Hz	0 dBm for 40 msec
F1	1950 Hz	0 dBm for 40 msec
F2	1850 Hz	0 dBm for 40 msec
F3	1750 Hz	0 dBm for 40 msec
F4	1650 Hz	0 dBm for 40 msec
F5	1550 Hz	0 dBm for 40 msec
F6	1450 Hz	0 dBm for 40 msec
F7	1350 Hz	0 dBm for 40 msec
F8	1250 Hz	0 dBm for 40 msec
F9	1150 Hz	0 dBm for 40 msec
F10	1050 Hz	0 dBm for 40 msec
F11	950 Hz	0 dBm for 40 msec
F12	850 Hz	0 dBm for 40 msec
F13	750 Hz	0 dBm for 40 msec
F14	650 Hz	0 dBm for 40 msec
F15	550 Hz	0 dBm for 40 msec
F16	2350 Hz	0 dBm for 40 msec
F17	2450 Hz	0 dBm for 40 msec

TRC Options:

- **TRC Option A:** Gooseneck Microphone
- **TRC Option B:** Wall Power Adaptor (Necessary for all TRC's)
- **TRC Option C:** Handset & Cradle
- **TRC Option D:** RS-232 Port & Serial Printer Cable
- **TRC Option E:** Line 2/Supervisor Capability
- **TRC Option F:** Four-Wire Capability
- **TRC Option H:** 2-Tone, 5-Tone, Pulse Tone Encoder (TRC-1 Only)
- **TRC Option I:** LCD Display Option with Real-Time Clock (TRC-1 Only)

*F1-F15 follow EIA and industry standards. F16 and F17 are Midian custom tones for extended functionality. These tones can also be customer programmed to other frequencies if desired.

