



MODEL TP-154

Shared Repeater Tone Panel



- Everything is standard:**
- **38 or 50 CTCSS Tones**
 - **104 DCS Codes**
 - **Supports up to 154 subscribers**
 - **Remotely DTMF programmable**
 - **CTCSS Trak™**

PURPOSE

The microprocessor controlled Model TP-154 provides everything necessary to convert any receiver and transmitter into a powerful high performance private or shared repeater system.

The TP-154 supports all 50 CTCSS tones and 104 DCS codes and is the only panel in the industry capable of handling 154 subscribers simultaneously.

The low cost of the TP-154 makes it also attractive for use in private systems of any size.

PERFORMANCE

The COS input allows the TP-154 to operate with precisely the same receiver sensitivity as the squelch built into the receiver. Special software algorithms make CTCSS or DCS talkdown practically impossible.

HOG TIME AND PENALTIES

A maximum talk time and no-talk penalty time is globally programmable and can be enabled or disabled on a per user basis. This gives you some control over the "air-time hogs."

PROGRAMMING

All per user and globally programmable features can be remotely programmed over the air or locally programmed by plugging any DTMF telephone into the rear of the TP-154. The telephone becomes your local programming keyboard.

FRONT PANEL DISPLAY

In operate mode the front panel display shows the CTCSS or DCS code of the current user. In local programming mode, the display shows all selections you enter and allows verification of previously entered data.

REMOTE DATA DISPLAY

You can immediately verify all over-the-air programming by displaying the TP-154's automatic DTMF transpond on either a CD-1 or CD-2 Communications Decoder. In addition to the front display, the CD-2 also outputs the transponded data on an RS-232 serial port. By using the CD-2P application for your PC or laptop computer, all programming data for each of your TP-154's can be downloaded and stored in your computer for future reference.

STANDARD FEATURES

- CTCSS Trak for ultimate CTCSS sensitivity
- 38 or 50 CTCSS Tones
- 104 DCS Codes
- Supports 154 Subscribers
- Remotely DTMF Programmable
- DTMF-DTMF Regeneration
- Four Digit Front Panel Display
- Front Panel Status LEDs
- Local and Remote DTMF Programming
- Low Power Mode
- COS Input with Polarity Select

Per User Programmable Features

- Hangtime
- Cross Tone and Code
- CW ID
- Courtesy Beep
- Barge-in
- Deadbeat enable/disable
- Reserve Tone
- Hog Penalty
- DCS/CTCSS During hang time

System Programmable Features

- Anti-kerchunk time
- Stuck Mic. Activity Timer
- DCS polarity
- System CW ID
- CW ID Speed
- CTCSS/DCS during hangtime
- COR or DCS/CTCSS Operate
- Programming Mode Access Code
- Carrier drop delay

ALL FEATURES ARE USER PROGRAMMABLE/SELECTABLE

CTCSS CODES

38 EIA Tones (no *)

12 Non Standard Tones (with *)

67.0	94.8	131.8	171.3*	203.5
69.4*	97.4	136.5	173.8	206.5*
71.9	100.0	141.3	177.3*	210.7
74.4	103.5	146.2	179.9	218.1
77.0	107.2	151.4	183.5*	225.7
79.7	110.9	156.7	186.2	229.1*
82.5	114.8	159.8*	189.9*	233.6
85.4	118.8	162.2	192.8	241.8
88.5	123.0	165.5*	196.6*	250.3
91.5	127.3	167.9	199.5*	254.1*

60 Day Return Privilege WARRANTY

- ✓ One Year Labor
- ✓ Five Year Parts

SPECIFICATIONS

AUDIO IN

Input level	10 MV - 2 V P-P
Input impedance	220K AC coupled

AUDIO OUT

Output level	0-5 V P-P
Output impedance	1K AC coupled
Distortion	<.5% THD
Freq. response	300 - 3000 HZ

DCS OUT

Output level	0-5 V P-P
Output impedance	5K AC coupled
No. of codes	83 EIA plus 21 additional
Decode time	<250 MS Typ.

CTCSS OUT

Output level	0-5 V P-P
Output impedance	5K AC coupled
No. of tones	38 EIA plus 12 additional
Decode Time	<250 MS Typ.

MISCELLANEOUS

Programming access code	6 digits
PTT keying	Pull to gnd. or +12 VDC
Repeat audio filtering	6 pole high pass
Temperature range	-30 C to +80 C
Power	12-15 VDC @ 150 Ma.

MECHANICAL

Size	1.75 x 19 x 7.5 in.
Weight	4 lbs.

104 DCS CODES

023	131	251	371	532
025	132	252	411	546
026	134	255	412	565
031	143	261	413	606
032	145	263	423	612
036	152	265	431	624
043	155	266	432	627
047	156	271	445	631
051	162	274	446	632
053	165	306	452	654
054	172	311	454	662
065	174	315	455	664
071	205	325	462	703
072	212	331	464	712
073	223	332	465	723
074	225	343	466	731
114	226	346	503	732
115	243	351	506	734
116	244	356	516	743
122	245	364	523	754
125	246	365	526	



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