

# TRA-1

## 'TIME-OUT' TIMER RESET ANNUNCIATOR BOARD

*"Courtesy Tone Beeper"*

- Puts-out a tone "beep" on repeater transmitter about 1 sec. (adjustable) after received signal drops—thus allowing time for breakers.
- Resets repeater time-out timer when tone is emitted.
- Trim pots (on board) for adjustable time delay and tone duration.
- Triggers IDeR tone generator for tone "beep." (Typically Spectrum ID250.)
- For use with the SCR1000/4000 or CTC100 and ID250.
- CMOS logic for super-low current draw!
- DC Input: +5V @ 1mA max.



# TMR-1

## TIMER BOARD

The TMR-1 Timer Board is a general purpose timer board designed for use with the SCR1000 and SCR4000 Repeaters. It may also be used with other make repeaters if the Spec Comm CTC100 and ID250 Boards are used. The board has two main functions and may be jumper-wire configured for one or the other. The two basic functions are:



### TIME OUT WARNING TONE

- Gives an adjustable Tone Warning (0-10 seconds) that the repeater is about to time out.
- Interconnects to CTC100 Board with simple installation.
- Uses Warble Tone on ID250 Board for audio warning on the repeater transmitter.
- Permits normal hang-time and time out functions (i.e., does not affect them).
- Eliminates guessing about repeater status (i.e., Did the repeater shut down? Did the operator stop transmitting? Did the repeater time out?)

### "KERCHUNKER KILLER"

- Gives adjustable delay (0-10 seconds) between user "key-up" and repeater transmission.
- Eliminates "kerchunking" of repeater! First key-up must be held for set delay time or repeater will not transmit.
- Once repeater TX is active, normal operation resumes.
- Self resetting after approximately 20 seconds of no activity.
- Eliminates random noise bursts (QRM, lightning, "intermods", etc.) from keying up repeater transmitter.

SIZE: 1 3/4" x 2 1/8" DC INPUT: 5 VDC @ apx. 1mA