

Specifications

FREQUENCY RANGE

The TR-193WX transceiver represents one of the most advanced AM base station radios used as a Class D station in the Citizens Radio Service. This unit features advanced Phase Lock Loop (PLL) circuitry providing complete coverage of all 40 channels as shown below.

CB Channel	Channel Freq. in MHz	CB Channel	Channel Freq. in MHz	Weather Channel	Weather Freq. in MHz
1	26.965	21	27.215	1	162.550
2	26.975	22	27.225	2	162.400
3	26.985	23	27.255	3	162.475
4	27.005	24	27.235	4	162.425
5	27.015	25	27.245	5	162.450
6	27.025	26	27.265	6	162.500
7	27.035	27	27.275	7	162.525
8	27.055	28	27.285		
9	27.065	29	27.295		
10	27.075	30	27.305		
11	27.085	31	27.315		
12	27.105	32	27.325		
13	27.115	33	27.335		
14	27.125	34	27.345		
15	27.135	35	27.355		
16	27.155	36	27.365		
17	27.165	37	27.375		
18	27.175	38	27.385		
19	27.185	39	27.395		
20	27.205	40	27.405		

The TR-193WX has a vastly superior receiver which includes noise blanker circuitry and a switchable automatic noise limiter. The receiver also features increased protection against cross modulation and strong adjacent channel signals.

Specifications (cont.)

GENERAL

Channels	40
Frequency Range	26.965 to 27.405 MHz.
Frequency Control	Phase Lock Loop (PLL) synthesizer.
Frequency Tolerance	0.005%.
Operating Temperature Range	-20° C to +50° C.
Microphone	Plug-in type; dynamic.
Input Voltage	120VAC 60 MHz.
Current Drain	Transmit: AM full mod., 45 watts (maximum) Receive: Squelched, 15 watts; full audio output, 30 watts (nominal).

Size	9 3/4" D x 9 3/4" W x 3 3/4" H.
Antenna Connector	UHF, SO-239.
Semiconductors	20 transistors, 44 diodes, 3 integrated circuits, 2 FETs and 2 dual gate FETs.
Meter	Illuminated; indicates relative power output and received signal strength.

TRANSMITTER

Power Output	4 watts.
Modulation	High-and-low-level, Class B, amplitude modulation.
Frequency Response	300 to 3000 Hz.
Output Impedance	50 ohms, unbalanced.

RECEIVER

Sensitivity	Less than 1 μ V for 10dB (S+N)/N.
Selectivity	6dB @ 7 KHz, 60 dB @ 10 KHz.
Image Rejection	80 dB.
Adjacent-Channel Rejection	50 dB.
I.F. Frequencies	Double Conversion: 1st: 10.695 MHz. 2nd: 455 KHz.
Automatic Gain Control (AGC)	Less than 10 dB change in audio output for inputs from 10 to 50,000 microvolts.
RF Gain Control	Two position switch: Normal/-25dB.
Noise Blanker	RF type.
Squelch	Adjustable; threshold less than 1 μ V.
Audio Output Power	3 watts.
Frequency Response	300 to 3000 Hz.
Distortion	Less than 7% @ 3 watts @ 1000 Hz.

Internal Speaker	8 ohms, round.
External Speaker (Not Supplied)	8 ohms; disables internal speaker when connected.
External Phone	100 mw; 16 Ω nominal

WEATHER (WX) RECEIVER

Type	Single Conversion Superhet; 455KHz IF
Modulation	FM; \pm 5KHz Deviation
Sensitivity	Less than 1 μ V for 12dB Sinad
Frequency Range	162.400 to 162.550 MHz
Channels	7; 25KHz Spacing
Frequency Control	Crystal
WX Emergency Warning	Phase Lock Loop; 1050Hz
Audio Output Power	4 Watts

(SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE)