

MASTR Executive II

BASE STATIONS - ALL SOLID STATE

35 WATTS, 138 TO 174 MHz







Alternate cabinet for indoor or outdoor wall mounting.



Optional Handset with magnetically operated hookswitch.

Desk Top Station shown with standard desk microphone and optional equipment: clock, VU meter, PSLM & CG Monitor.

☐ Multiple Tone CG Encoder

PRODUCT FEATURES MAJOR BENEFITS Top Quality Specifications For Optimum Performance * Modular Construction For Increased Reliability * All Solid State Long Life Expectancy & Instant Operation ★ Silicon Transistors & ICs Dependable High Temperature Operation 🜟 Broad Band Power Amplifier No Tuning Controls * Single Conversion Receiver Minimizes Spurious Responses ★ Fixed Squelch Rids Operator of Needless Control ★ Desk Top and Wall Mount Models Use Indoors and Outdoors 🜟 "Snap-Lock" Crystal Modules Solid Retention/Easy Removal 💢 Plug-in Interconnections Change Modules without Soldering Modules Interchangeable with Mobiles Simplifies Maintenance And many options with few incompatibilities . . . Provides wide selection of models for basic or sophisticated systems. **OPTIONS and ACCESSORIES** ☐ Channel Guard (tone squelch) ☐ Handset & Magnetic Hookswitch ☐ External Tone Devices ☐ Up to 8 Channels ☐ Carrier Control Timer ☐ Battery Standby Kit ☐ Squelch Operated Relay ☐ Electronic Digital Clock ☐ Priority Search Lock Monitor (2f) ☐ VU Meter ☐ Remote Controllers UHS (Preamp) Receiver ☐ Local Control Extension ☐ Noise Blanker





MASTR Executive II BASE STATIONS

138-174 MHz

For Local, Local/Remote or Remote Operation

GENERAL

	RF POWER OUTPUT	PA POWER INPUT	AC POWER INPUT (Watts) @ 121 VAC			FCC FILING NUMBER			APPLICABLE TO PART NUMBER	
SERIES	(Watts)	(Watts)	Standby	Receive	Transmit		3&4 Freq.			NUMBER
F156 . WI56	10 to 35	75	36	72	3(1)	KT-124-A	KT-124-A	KT-124-B	21, 81, 89, 91, 93	ER-89-A
. WI56						KT-129-A	N/A	N/A		

AC POWER INPUT:

121 VAC 50/60 Hz, operable over ±20% Input Voltage Range. *Up to 2 Channels only.

(Optional 242 VAC or 13.8 VDC standby battery.)

DUTY CYCLE (EIA)

Intermittent: Continuous:

Receiver, 100% - Transmitter, 20%

Transmitter 100%

TEMPERATURE RANGE:

-30°C to +60°C -22°F to +140°F

HUMIDITY: ALTITUDE: 95% RH @ 60°C (140°F)

15,000 ft. (5,500 m.)

DIMENSIONS:

FI56 (Desk Top) WI56 (Wall Mount) 21.25 ins. High 6 ins 15.24 cm. 53.97 cm. 20.375 ins. 51.75 cm. Wide 22.5 ins. 57.15 cm. Deep 13.75 ins. 34.9 cm. 8.875 ins. 27.54 cm.

WEIGHT (Approximate):

Combination OPERATING MODE:

Shipping (Domestic Pack)

46 lbs. 56 lbs. 20.8 kg 25.4 kg.

72 lbs.

29.5 kg. 65 lbs. 32.7 kg.

FI56 Models are available for Local or Local/Remote (PTT) operation. Remote Controller not furnished. WI56 Models are available for Remote (2 freq. max.)

operation. Remote Controller not furnished.

METERING:

SPEAKER:

3.2 ohms (Optional on Wall Mount Station)

MICROPHONE:

Centralized metering sockets

Desk type, controlled magnetic, transistorized (for FI56 Station only).

-80 dB

-95 dB

CURRENT DRAIN ON OPTIONAL **EMERGENCY BATTERY (13.6 VDC)**

Standby: Receive: Transmit:

0.40A 1.5A 10.0A

DC REMOTE CONTROL COMBINATIONS (Model WI56 only)

Line-to-transmitter

Terminating Impedance: 600 ohms (optional

150 or 900 ohm)

Line Level: -20 dBm to +11 dBm

Receiver-to-line

Output Level (1 kHz ref.)

Voice: Tone:

0 vu (adjustable) +11 dBm (adjustable)

Output Impedance:

600 ohms (optional 150 or 900 ohm)

Line Loop Resistance:

11,000 ohms (8000 line + 3000 termination)

Control Currents:

0, ±6, ±11, -2.5 ma

RECEIVER

Noise Basic Type: Preamp or Blanker RF Input Impedance: 50 ohms **Channel Spacing:** 25/30 kHz

Sensitivity EIA 12 dB SINAD: 0.35 μν 0.175 μν 20 dB Quieting: 0.5 μν 0.25 μν 4 dB SINAD Noise Squelch: Channel Guard Squelch: 6 dB SINAD

Selectivity EIA 2-Signal

(30 kHz channels): -90 dB -90 dB -85 dB (25 kHz channels): ±0.0005% from Frequency Stability: -30°C to +60°C ±7 kHz

Modulation Acceptance: Intermodulation:

-85 dB Spurious and Image Rejection: -100 dB

Audio Response: Within +1 and -8 dB of 6 dB/octave de-emphasis, 300 to 3000 Hz per EIA. Audio Output: 5 watts, 5% distortion (1000 Hz ref.)

Frequency Separation (max.) (Optional, 2 to 8 channels) (MHz) 138to 155 150.8to174 Full Specifications (MHz): 0.9 1.0 3 dB Sensitivity Degradation (MHz): 1.8 1.6

TRANSMITTER

Rated Power Output

Intermittent Duty: Continuous Duty

@ 25°C:

12 watts 50 ohms

35 watts

RF Output Impedance:

Conducted Spurious and

Harmonic Emission 138-155 MHz:

150.8-174 MHz:

-75 dB -80 dB

Modulation Deviation:

0 to ±5 kHz (16F3 & 16F9)

Frequency Stability:

±0.0005% from -30°C, to +60°C.

FM Noise:

Audio Response:

55 dB Within +1 and -3 dB of

6 dB/octave pre-emphasis, 300 to 3000 Hz per EIA Standards

Audio Distortion:

Less than 3%

Frequency Separation (max.) (MHz) 138to155 150.8to174 (Optional, 2 to 8 channels) Full Specifications (MHz): 1.8 2.0 1 dB Power Output 2.25 Degradation (MHz): 2.5

MOBILE RADIO DEPARTMENT

WORLD HEADQUARTERS • LYNCHBURG, VIRGINIA 24502

