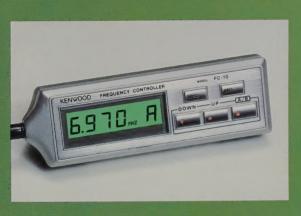


FM MOBILE TRANSCEIVER TM-201A, 70-cm TM-401A



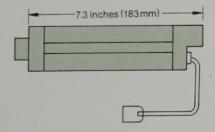


KENWOOD

The KENWOOD TM-201A 2-m FM mobile transceiver and TM-401A 70-cm FM mobile transceiver are designed to be the ultimate in compact size lightweight. and allowing maximum flexibility in automotive installations. microprocessor controlled operating features, improved receive and transmit circuitry, a powerful 25 watts (TM-201A) and 12 watts (TM-401A) of RF output, and an easy-to-operate front panel control layout are packed into these new, ultra compact radios, providing extended flexibility and ease of operation. The complete TM-201A or TM-401A system consists of the transceiver, a high quality external speaker, and a 16 key autopatch UP/DOWN microphone. An optional FC-10 very compact frequency controller is also available, further extending flexibility of operation. The KENWOOD TM-201A and TM-401A, totally new concepts in mobile radios for 2-m and 70-cm operations.

ULTRA COMPACT AND LIGHTWIGHT.

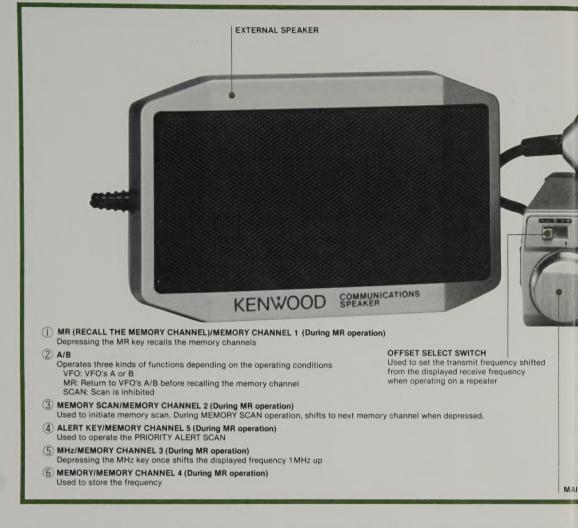
Designed to be the ultimate in compact size and lightweight, while retaining the maximum in operating features and convenience. Measures only 5.6 (141) W×1.6 (39.5) H×7.3 (183) D, inch (mm), and weighs only 2.8 lbs., (1.25kg), ideally sized for installation in today's compact automobiles.



* The depth of 7.3 inches (183mm) is the maximum effective length using flexible antenna cable/connector.

25 WATT OUTPUT, WITH HI/LO POWER SWITCH. (TM-201A)

The TM-201A produces a powerful 25 watts of RF output from a surprisingly compact design. The HI/LO power switch on the front panel allows for power reduction to 5 watts. The TM-401A produces 12 watts of RF output in the HI power position and 1 watt in the LO power position.



DUAL DIGITAL VFO'S BUILT-IN.

Features dual digital VFO's, with front panel VFO-A/B switch. The TM-201A VFO's tune independently from 142,000 to 148,995MHz in 5-kHz steps, and include certain MARS and CAP frequencies. The TM-401A VFO's tune from 440,000 to 449,975MHz (USA or *M1 version) or from 430,000 to 439,975 MHz (**M2 version) in 25-kHz steps. A MHz key on the front panel shifts the frequency in 1-MHz steps, for efficiency in changing frequency.

- * M1: UHF High Band Territory
- ** M2: UHF Low Band Territory

5 MEMORIES PLUS "COM" CHANNEL, WITH LITHIUM BATTERY BACK-UP.

- Memory 1 is for the priority alert function.
 Memories 2 and 3 store a single frequency,
 and permit repeater operation using the
 OFFSET switch. Memories 4, 5, the COM
 (common) channels store transmit and receive frequencies independently, allowing
 operation on repeaters having both standard
 and odd offsets.
- A front panel COM (common) channel switch allows instant recall of frequency and tone (with optional TU-3 programmable tone encoder unit installed) for ease of operation on the most popular frequency.
- Internal lithium battery backs up memory data (estimated 5 year life) for convenience in moving the transceiver from the car to the home or vice versa.

PRIORITY ALERT SCAN.

With ALERT switch "ON", once every 6 seconds, the unit scans back to memory channel 1 for approximately 0.3 seconds to monitor the activity on the priority channel (channel 1). A dual "beep" will sound if a signal is present on memory 1 frequency.

MEMORY SCAN AND PROGRAMMABLE BAND SCAN.

- MS switch initiates memory scan. Skips memories in which no data is stored.
- Depressing the UP or Down switch on the microphone initiates band scan in the appropriate direction. Two frequencies, stored independently in momory 5, set band scan frequency limits.
- In both memory and band scans, scanning stops on busy channel and automatically resumes after 6 seconds.

HIGHLY VISIBLE YELLOW LED FREQUENCY DISPLAY.

Four digit yellow LED display featuring improved visibility indicates receive and transmit frequencies. The MHz decimal blinks while scanning, and the kHz decimal lights when VFO-B is being used. An S/RF LED bar meter with "BUSY" indicator, plus "MR" (Memory recall), "ALERT", and "ON AIR" LED indicators are provided.

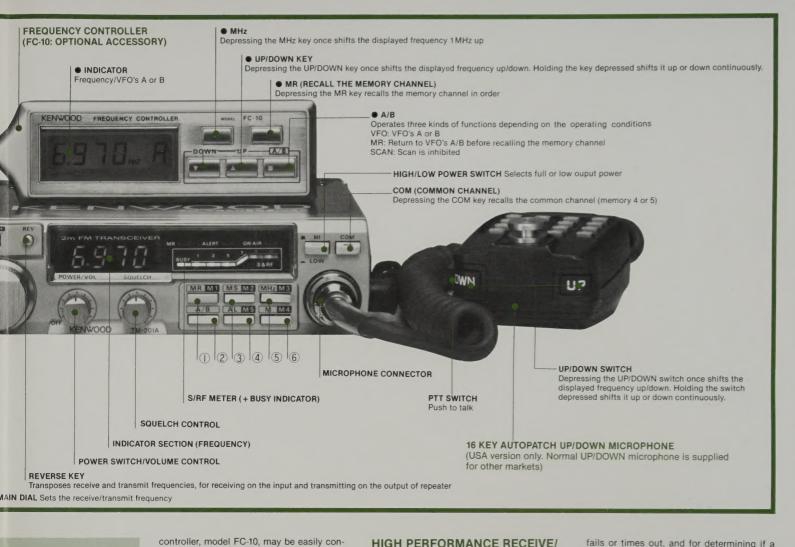
OPTIONAL FC-10 FREQUENCY CONTROLLER.

An extremely compact optional frequency

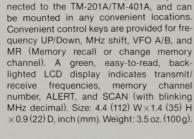


TM-401A:70-cm FM MOBILE TRANSCEIVER

KENWOOD



fits all···"



EXTERNAL HIGH QUALITY SPEAKER SUPPLIED.

The TM-201A/TM-401A is supplied with a compact, high quality, external speaker, (no internal speaker) providing flexibility in installation for maximum convenience.

16-KEY AUTOPATCH UP/DOWN MICROPHONE SUPPLIED.

(U.S.A. version only. Normal UP/DOWN microphone is supplied for other markets) Encodes 16 autopatch tones. UP/DOWN switches provide step frequency change, or initiate band scan in the appropriate direction, if held depressed momentarily.

AUDIBLE "BEEPER" CONFIRMS OPERATION.

Various functions are confirmed by separate, distinct, "beeps", each different from the other.

HIGH PERFORMANCE RECEIVE/ TRANSMIT SPECIFICATIONS.

The use of a GaAs FET RF amplifier, plus an improved antenna switching circuit, provides high sensitivity with wide dynamic range. Improved squelch circuit increases stability of operation. Transmitter modulation characteristics selected for best sound quality and minimum distortion.

REPEATER OFFSET SWITCH AND REVERSE SWITCH.

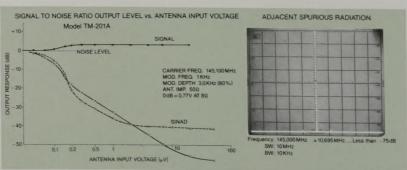
±600-kHz (TM-201A)/±5-MHz (TM-401A) or simplex is selected by the front panel offset switch. The repeater reverse switch transposes the receive and transmit frequencies for checking signals on the input of a repeater, (for quality, or for determining if the other station is within simplex range), for communicating with a station if the repeater

fails or times out, and for determining if a repeater is "upside-down".

OPTIONAL TU-3 TWO-FREQUENCY TONE ENCODER.

Optional TU-3 provides two different programmable tones, using a diode matrix and a DIP switch. The first tone is programmed by the diode matrix, and is automatically activated when the COM switch is depressed. The second tone is programmed by the DIP switch, and is automatically activated when the repeater offset switch is in the "+" or "-" position. The TU-3 may be easily installed inside the TM-201A and TM-401A.

EASY-TO-INSTALL MOBILE MOUNT.





PTIONAL ACCESSORIES



FREQUENCY CONTROLLER

Green, easy-to-read, back-lighted, smart LCD display. FC-10 may be easily connected to the TM-201A/TM-401A and can be mounted in any convenient



TWO FREQUENCY TONE **ENCODER**

Provides two different programmable tones, using a diode matrix and a DIP switch.



KPS-7A DC POWER SUPPLY (Available only in U.S.A.)

Maching DC power supply (7.5A intermittent) for TM-201A/TM-401A base station operation. Protection circuit is built-in.



PS-430 DC POWER SUPPLY

Supplies regulated 13.8VDC at 20A intermittent with built-in cooling fan and protection circuits for maximum reliability.



SW-100A/B SWR/POWER METER

locations

A: 1.8~150 MHz B: 140~450MHz Compact and light weight SWR/POWER/VOLT meter for mobile use. (0~150W)



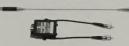
SW-200A/B SWR/POWER METER

A: 1.8~150 MHz

B: 140~450MHz SWR/POWER meter for base station use. (0~20/200W)



MC-48 16-KEY AUTOPATCH UP/DOWN MICROPHONE (8 pin)



MA-4000 **DUAL BAND MOBILE ANTENNA WITH DUPLEXER**

Covers the two bands, 2-m and



MC-55 MOBILE MICROPHONE WITH TIME-OUT-TIMER

Electret condenser microphone.







PG-3A **NOISE FILTER**

for mobile use.

CATIONS

microphone

(GENERAL)

Frequency Range:

TM-201A U.S.A., M 144-148MHz U.S.A., * M1 440-450MHz TM-401A ** M2 430-440MHz

*M1: UHF High Band Territory ** M2: UHF Low Band Territory

(8 pin)

Power Requirement: Power Consumption: 13.8VDC ±15% (Negative grounding)

TM-201A TM-401A

Transmit (HI) Less than 5.5A 3.8A (LO) Approx. 2.5A 1.6A Receive (no signal) Less than 0.5A -20°C~+50°C (TM-201A)

Operating Temperature:

-20°C~+60°C (TM-401A)

Antenna Impedance: Microphone Impedance: 500Ω External Speaker Impedance: 8Ω

Dimensions:

5.6 (141) W×1.6 (39.5) H×7.3 (183) D inch (mm)

Weight: 2.8 lbs (1.25 kg)

(TRANSMITTER)

Final Power Output:

TM-201A TM-401A 25W 12W LO approx. 5W 1W

Modulation: Reactance Modulation

Maximum Frequency Deviation: ±5KHz

Spurious Radiation:

TM-201A TM-401A (HI) Less than -70dB -60dB

(LO) Less than -60dB Less than 3% (300 Hz - 3000 Hz)

Modulation Distortion (Modulation degree 60%)

(RECEIVER)

Circuitry Intermediate Frequency:

Spurious Response:

Squelch Sensitivity:

Audio Output Power:

Scan Stop Level:

Sensitivity: Selectivity:

1st IF 10.695MHz 21.60MHz 2nd IF 455KHz 455 KHz SINAD Less than 0.22 µV (TM-201A)

Double Conversion Superheterodyne

TM-201A TM-401A

0.2 µV (TM-401A)

More than 12KHz (-6dB) Less than 24KHz (-60dB) Less than -70dB (except IF/2)

Less than 0.16 µV Less than 0.2 µV

More than 2.0W (5% distortion)

NOTE: (1) Circuit and ratings are subject to change without notice due to developments in technology. (2) Some optional accessories may not be available in your areas.

TRIO-KENWOOD CORPORATION

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