



TM-281A/481A

144/430 MHz FM Transceivers

Whatever the mission, wherever you go, Kenwood's TM-281A/481A is a radio you can count on. This compact transceiver delivers powerful mobile performance and such advanced features as multiple scan functions and memory names. High-quality audio is assured by the large speaker. Naturally, MIL-STD compliant toughness ensures rugged reliability. And operating ease is second to none: illuminated keys and a large LCD with adjustable backlighting make for user-friendly operation day or night.

RUGGED, COMPACT CONSTRUCTION

The TM-281A/481A is tough enough for off-road assignments: it meets the strict U.S. Department of Defense MIL-STD 810 C, D, E, F & G environmental standards for vibration and shock. Installation is easy due to its compact dimensions: 160 (W) x 43 (H) x 126 (D)* mm.



* Total depth of 170.5 mm with protrusion

HIGH POWER OUTPUT (65W: TM-281A)

Even with its compact size, the TM-281A delivers up to 65 watts (45 watts for the TM-481A), with a choice of High/Low output. A DTMF microphone is also supplied as standard.

ALPHANUMERIC LCD AND ILLUMINATED KEYPAD

The vivid amber LCD display comes with a 32-step brightness control to suit any ambient light conditions. It displays up to 6 large alphanumeric characters. The front panel and microphone keypads are also illuminated for ease of use.





Memory name







IMPRESSIVE FRONT SPEAKER

The large oval speaker (58 x 35 mm) mounted in the front ensures every message is heard loud and clear.

MEMORY NAME FUNCTION

Up to 100 memory channels can be identified with a maximum of 6 alphanumeric characters each. (200 channels are available if the memory name function is not used.)

200 MEMORY CHANNELS PLUS 1 CALL-CHANNEL

Each of the memory channels can be used to store transmit and receive frequencies independently. Additionally, memory data can be edited and stored on a computer*.

*Requires USB Programming Cable KPG-46U, and Memory Control Software MCP-1A (Ver.3.0 or later); consult your local dealer for details on purchasing these options.



MULTIPLE SCAN FUNCTIONS

Included as standard are VFO scan, memory scan, call scan, Tone/CTCSS scan and DCS scan – with TO (Time-operated), CO (carrier-operated) and seek scan resume modes. Also priority scan is available to check the Priority channel every 3 seconds.

CTCSS & DCS ENCODER/DECODER

The built-in CTCSS and DCS encoder/decoder covers 42 CTCSS sub-tone frequencies and 104 DCS sub-tone frequencies.

OTHER FUNCTIONS

 Power-on Message
Wide/Narrow Deviation Selection (per channel)
1750 Hz Tone Burst • Automatic Simplex Checker • Reverse Function • Auto Repeater Offset • Beep On/Off • Auto Power Off • Time-Out Timer • Channel Display Mode Busy Channel Lockout
Memory Channel Lockout
MR-shift
Direct Frequency Entry • Key Lock



Options



Not all accessories are available in all markets. For availability, contact your nearest dealer.

Specifications

	TM-281A	TM-481A		TM-281A	TM-481A
GENERAL			TRANSMITTER		
Frequency Range			RF Power Output Hi / Lo	65 W / 25 W	45 W / 25 W
TX RX	136 - 174 MHz 136 - 174 MHz	400 - 470 MHz 400 - 470 MHz	Modulation	Variable reactan	ce modulation
Mode	F3E (FM)		Maximum Frequency Deviation	Wide: ±5 kHz, Narrow: ±2.5 kHz	
Power Requirement	13.8 V DC ±15 %, negative ground		Modulation Distortion	Less than 3 % (300 Hz - 3 kHz)	
Curent Drain	13.0 V DC 213 70	, negative ground	RECEIVER		
Transmit	Less than 14 A (High), less than 8 A (Low) Less than 1 A		Circuitry	Double super heterodyne	
Receive			Intermediate Frequency		
Operation Temperature Range	-20 °C ~ +60 °C		1st IF	49.95 MHz	
Antenna Impedance	50 Ω		2nd IF	450	(Hz
Microphone Impedance	600) Ω	Sensitivity (12 dB SINAD)	Less than 0.18 uV (Narrow: less than 0.22 uV)	
Frequency Tolerance	±2.5 ppm (-20	°C ~ +60 °C)	Squelch Sensitivity	Less than 0.1 uV	
Dimensions (W x H x D), (Projections included)	160 x 43 x 161 x 43 x		Selectivity -6 dB -60 dB	More than 12 kHz (Narrow: more than 10 kHz) Less than 30 kHz (Narrow: less than 24 kHz)	
Weight	1.13	l kg	Audio Output Power	More than 2 W (5 % distortion)	

Kenwood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.

Applicable MIL-STD

MIL-STD	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
Vibration	514.2/Procedure VIII, X	514.3/Procedure I Category 8	514.4/Procedure I Category 8	514.5/Procedure I Category 20	514.6/Procedure I Category 20
Shock	516.1/Procedure I, II, V	516.3/Procedure I , IV	516.4/Procedure I , IV	516.5/Procedure I , IV	516.6/Procedure I , IV

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