

TK-7189(VHF)/8189(UHF)

VHF/UHF FM Mobile Radios



Like the TK-7180/8180 Kenwood's TK-7189 & TK8189 offer a superb range of advanced features to play a key role in the latest dispatch and fleet control applications. The only difference between the two models being the TK-7180/8180 has a front mounted speaker while the TK-7189/8189 has a 12 digit keypad instead of the speaker for quicker input.

Features:

- * Enhanced Kenwood Audio
- * FleetSync Compatibility
- * 5-Tone Signaling
- * 'Lone Worker' Function
- * RSSI Level Indicator
- * Minimum Volume setting
- * Voice Inversion Scrambler
- * Remote Control Head (OPT)
- * Dual Priority & Scan Feature
- * Kenwood ESN (Electrical Serial Number)
- * GPS Ready (NMEA0183 Compatible)
- * Wide Band Coverage (VHF: 136-174MHz, UHF: 400-470MHz)
- * High Visibility Dot Matrix Display (12 Character Alphanumeric LCD Display)
- * Extra Large Channel Capacity (512 Channel/128 Zone)
- * Transparent Data Mode for Data Exchange Capability
- * Rugged Construction (MIL-STD 810 C/D/E/F and IP54/55)
- * Real Time Clock for Time Stamping
- * MPT 1327/43 radios for VHF & UHF will be available
- * 12 Digit Keypad

Options

<ul style="list-style-type: none"> KMC-35 Microphone (supplied microphone) KMC-36 Keypad Microphone KMC-9C Control Station Desktop Microphone KRK-10 Control Head Remote Kit (23ft/7m) KCT-46 Ignition Sense Cable 	<ul style="list-style-type: none"> KCT-40 Radio Interface Cable (for KDS-100, KGP-2A/2B) KCT-23M DC Cable (Dash mount / 10 feet) KCT-23M3 DC Cable (Remote mount / 23 feet) KAP-2 Horn Alert/Public Address Relay Unit VGS-1 Voice Guide & Storage Unit 	<ul style="list-style-type: none"> KES-3 External Speaker KES-5 External Speaker (requires KAP-2) KMB-10 Key Lock Adapter KLF-2 Line Noise Filter KPS-10A DC Power Supply 	<ul style="list-style-type: none"> KPS-15 DC Power Supply KDS-100 Mobile Data Terminal KGP-2A/2B GPS Receiver / Modem Unit
--	---	---	--

Specifications

Model	TK-7189	TK-8189	Model	TK-7189	TK-8189
GENERAL			RECEIVER (Measurements made per EIA/TIA-603)		
Frequency Range			Sensitivity (12dB SINAD)		
Type 1	136~174 MHz	450~520 MHz	Wide	0.25 µV	
Type 2	-	400~470 MHz	Narrow	0.28 µV	
Number of Channels*			Selectivity**		
Zone		Max.128 per Radio	Wide	80 dB	80 dB
Ch/GID		Max.250 per Zones	Narrow	70 dB	67 dB
		(Max.512 [Conv.Ch's +GID's] total per Radio)	Intermodulation Distortion		
Channel Spacing			Wide/Narrow	75 dB (±50, 100 kHz)	
Wide	25 kHz, 30 kHz	25 kHz	Spurious Response**	90 dB	85 dB
Narrow	12.5 kHz, 15 kHz	12.5 kHz	Audio Output (4 Ω Impedance)	4 W with less than 5 % distortion	
Operating Voltage	13.6 V DC±1.5 %		TRANSMITTER (Measurements made per EIA/TIA-603)		
Current Drain			RF Output Power		
Standby	0.4 A	0.4 A	Type 1	30 to 1 W	50 to 10 W
Receive	1.0 A	1.0 A	Type 2	-	-
Transmit	9.0 A	13.0 A	Spurious Response		70 dB
Duty Cycle	Transmit: 20 %		Type of Emission		
Operating Temperature Range	-22 °F ~ +140 °F (-30 °C ~ +60 °C)		Wide	16K0F3E	
Frequency Stability	±0.00025 % (-22 °F ~ +140 °F)		Narrow	11K0F3E	
Antenna Impedance	50 Ω		FM Hum & Noise		
Channel Frequency Spread			Wide	50 dB	
Type 1	38 MHz	70 MHz	Narrow	45 dB	
Type 2	-	70 MHz	Microphone Impedance	600 Ω	
Dimensions (W x H x D), Projections not included	6-5/16' x 1-3/4' x 6-3/16' (160 mm x 45 mm x 157 mm)		Audio Distortion		
Weight (net)	3.3 lbs. (1.5 kg)		Wide/Narrow	3 %	
FCC ID			** Typical specifications Ken wood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice.		
Type 1	K4437303110	K4437303210	FleetSync® is a registered trademark of Kenwood Corporation. LTR® is a registered trademark of Transcrypt International.		
Type 2-	-	-	footnotes from Front: • KRK-10 remote control kit required. • DTMF includes PTT ID, Emergency ANI, Manual Encode (KMC-36), Auto-Dial (9 numbers) & Stun. • Special Alert Tone Patterns operate for 2-Tone, DTMF, FleetSync® selective call decode. • Call Key: 6 keys max.; operates for 2-Tone, DTMF and FleetSync status encode. • DB-25 ACC supports 15 Remote Zone/CH/GID selections. KGP-2A/B (KCT-40 required), KDS-100 (KCT-40 required), data modem, MDT, interconnect. • KCT-46 ignition sense cable option required; plugs into mobile ignition sense pig-tail cable. • KAP-2 required. Horn Alert operates for FleetSync®, 2-Tone or DTMF selective call decode. • KPG-89D required: Windows®98/NT/2000/Me/XP compatible; English/Spanish screen languages. • MIL-STD "Driven-Rain" and IP-55 Water/Dust Intrusion apply to remote control head only; IP54 applies to radio chassis. • Conventional Zones: 512 Channels / 128 Zones max. per radio; 250 CH max. per Zone Trunked Zones: 512 GID / 128 Zones max. per radio; 250 GID max. per Zone. • Two-Tone Decode (4 sets x 4 pairs each); Single / Two-Tone Encode (32 tones). Operator Selectable Tone (40 QT.DQT code pairs). • Ken wood LTR® Features include: GID Delete/Add, LTR® Talk Around /Scan Revert Group Display, System Scan, Group Scan, Auto Search. • FleetSync® & FleetSync® II are not compatible. • Short Text Messages are radio stored & LCD displayed; Long Text Messages require a KDS-100 and KCT-40. • FleetSync® GPS features require an internal GPS board or externally wired GPS receiver with NMEA TTL level serial data output to the internal COM 1 or 2 set to "GPS". • Requires a VGS-1 option.		
IC Certification			K4437313110 K4437313210		
Type 1	282F-37303110	-	K4437313120 K4437313220		
Type 2-	-	-	282F-37313120 -		

*Maximum capability depends on the number of programmed Zone and repeater channels.

Applicable MIL-STD & IP

Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures
Low Pressure	500.1/Procedure I 5 0 0 . 2 / Procedure I, II	501.2/Procedure I, II	500.3/Procedure I, II 5 0 0 . 4 / Procedure I, II	501.4/Procedure I, II
High Temperature	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II 5 0 1 . 4 / Procedure I, II	501.4/Procedure I, II
Low Temperature	502.1/Procedure I 5 0 2 . 2 / Procedure I, II	502.3/Procedure I, II	502.3/Procedure I, II 5 0 2 . 4 / Procedure I, II	502.4/Procedure I, II
Temperature Shock	503.1/Procedure I 5 0 3 . 2 / Procedure I	503.3/Procedure I	503.3/Procedure I	503.4/Procedure I, II
Solar Radiation	505.1/Procedure I 5 0 5 . 2 / Procedure I 5 0 5 . 3 / Procedure I	505.4/Procedure I		
Rain	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II 5 0 6 . 4 / Procedure I, III	
Humidity	507.1/Procedure I, II	507.2/Procedure II, III 5 0 7 . 3 / Procedure II, III	507.4	
Salt Fog	509.1/Procedure I 5 0 9 . 2 / Procedure I 5 0 9 . 3 / Procedure I	509.4		
Dust	510.1/Procedure I 5 1 0 . 2 / Procedure I 5 1 0 . 3 / Procedure I	510.4/Procedure I, III		
Vibration	514.2/Procedure VIII, X	514.3/Procedure I 5 1 4 . 4 / Procedure I	514.5/Procedure I	
Shock	516.2/Procedure I, II, III, V	516.3/Procedure I, IV, V	516.4/Procedure I, IV, V	516.5/Procedure I, IV, V
International Protection Standard				
Dust & Water Protection	P54: Radio itself P54/55: Remote Head with KRK-10			

*To meet above Mil810 and IP grade, weather proof microphone KMC-35 or KMC-36 has to be

Your Local Distributor:

Maximon Solutions T: 0845 873 6250
 22 Soho Mills F: 0845 873 6251
 Wooburn Green E: sales@maximonsolutions.com
 Buckinghamshire
 HP10 0PF