

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 | 9.0 A | 13.0 A | 30 to 1 W (490-520 MHz:25 to 1 W) 45 to 10 W (490-512 MHz:40 to 10 W) 30 to 1 W 45 to 10 W |
| Duty Cycle | Transmit: 20 % | | Spurious Response | | 70 dB |
| Operating Temperature Range | -22 °F ~ +140 °F (-30 °C ~ +60 °C) | | Type of Emission | | |
| Frequency Stability | ±0.00025 % (-22 °F ~ +140 °F) | | Wide | | 16K0F3E |
| Antenna Impedance | 50 Ω | | Narrow | | 11K0F3E |
| Channel Frequency Spread | | | FM Hum & Noise | | |
| Type 1 | 38 MHz | 70 MHz | Wide | | 50 dB |
| Type 2 | - | 70 MHz | Narrow | | 45 dB |
| 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) | | Microphone Impedance | | 600 Ω |
| Weight (net) | 3.3 lbs. (1.5 kg) | | Audio Distortion | | |
| FCC ID | | | Wide/Narrow | | 3 % |
| Type 1 | K4437303110 | K4437303210 | ** Typical specifications Ken Wood follows a policy of continuous advancement in development. For this reason specifications may be changed without notice. | | |
| Type 2- | - | - | FleetSync® is a registered trademark of Kenwood Corporation. LTR® is a registered trademark of Transcrypt International. | | |
| IC Certification | | | 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). • Kenwood 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. | | |
| Type 1 | 282F-37303110 | - | | | |
| 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 | 507.4/Procedure I, III |
| Humidity | 507.1/Procedure I, II | 507.2/Procedure II, III 5 0 7 . 3 / Procedure II, III | 507.4/Procedure I, III | 509.4/Procedure I, III |
| Salt Fog | 509.1/Procedure I 5 0 9 . 2 / Procedure I 5 0 9 . 3 / Procedure I | 509.4/Procedure I | | |
| 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

Communication Specialists Ltd.
Unit 20, Murrell Green Business Park,
London Road, Hook,
Hampshire.
United Kingdom.
RG27 9GR

Tel. +44 (0) 1256 766600
Fax. +44 (0) 1256 766500
www.walkie-talkie.co.uk
info@comm-spec.co.uk