

KENWOOD

KDS-100

FleetSync Data Terminal

Kenwood's FleetSync™ Digital Messaging & Signaling is a cost-effective fleet management tool, ideal for operations using private or subscriber-based two-way services. FleetSync™ offers digital fleet unit identification, selective calling, status messaging and text messaging for dispatch operations. And now Kenwood's KDS-100 FleetSync™ Data Terminal expands the FleetSync™ display, memory and operational capabilities of 80-Series mobile radios. The KDS-100 will also add FleetSync™ capabilities to Kenwood's 60G/62G-Series mobiles.

Air and PC Modes

The KDS-100 can be programmed to operate in either of two modes: Air and PC. In Air mode, the internal modem is used to encode/decode FleetSync MSK signaling, while in PC mode these operations are performed by an 80-Series mobile connected via serial interface.

Large Memory Capacity

The KDS-100 has a 511 ID List capacity for selecting individuals and sub-fleet groups; this is ideal for selective call/messaging when the KDS-100 is used as a control station/base unit for a large fleet. Also, fleet mobiles can utilize this capacity to select and decode-display more IDs than the normal 80-Series ID List allows (100). Stack memory can hold up to 367 messages of all types at one time.

Simple Installation

The supplied mounting bracket can be angled to optimize LCD viewing. KCT-34 (80-Series) and KCT-35 (60G/62G-Series) Interface Cable options* – required on all installations – interface the KDS-100 to the mobiles.

* These cables are short (approx. 1ft.) therefore the KCT-36 Extension Cable option (9.8 ft.) is recommended for most installations.

Large Backlit LCD & Function Keys



Large 6-line x 40-character display



5-line/3-line displays

The large LCD (240 x 64 dot matrix) provides a 40 character x 6-line display for messages. Line size is user-adjustable: enlarged 5- or 3-line displays offer maximum readability. Backlight brightness and contrast can also be adjusted by the user to suit different ambient lighting conditions.



DSP Modem

The built-in FleetSync DSP modem (standard baud rate: 1200/2400 bps) provides FleetSync signaling even to non-FleetSync mobiles such as the Kenwood 60G/62G-Series (except Caller ID, Caller ID Stack, PC Serial Interface and FleetSync GPS AVL).

10 Status Message Hot Keys

Ten function keys (in 2 banks of 5) can be used to respond with the 10 most common status messages, each of which is clearly identified on the LCD with its first 7 characters.

Real-Time Clock / Message Time Stamping

The KDS-100 real-time clock (12- or 24-hour display) and calendar can be synchronized with the computer used for programming. Incoming messages are date/time-stamped on the LCD for call age, sequencing, start/end job and billing purposes.

Other Features

- Message Alerting / Sorting / Deletion / Temporary Recycle Bin
- Receive Alert (LED & Buzzer)
- Buzzer Volume Control
- Flash Memory



80-Series Comparison with and without the KDS-100

FleetSync™ Feature	80-Series Mobile-only	80-Series & KDS-100	60G/62G & KDS-100
ID List Capacity	100 ^{1,0}	511 ^{1,0}	511 ^{1,0}
Status Message List	50	89	89
Status Message Display	1 msg. x 16 char. (scroll-displayed)	5 msg. x 23 char. (list-displayed)	5 msg. x 23 char. (list-displayed)
Status Message Stack Memory	9	367 max. ^{1,1}	367 max. ^{1,1}
Short Text Message Display	1 msg. x 48 char. (scroll-displayed)	1 msg. x 48 char. (page-displayed)	1 msg. x 48 char. (page-displayed)
Short Text Message Capacity	4	367 max. ^{1,1}	367 max. ^{1,1}
Long Text Message Display	-- Not available -- (serial output only)	1 x 1024 char. (page-displayed)	1 x 1024 char. (page-displayed)
Long Text Message Stack Memory	-- Not available --	76 ^{1,1}	76 ^{1,1}
LCD Character Capacity	10 char. x 1 line	40 char. x 6 line (max.)	40 char. x 6 line (max.)
Message Memory Storage	Volatile memory	Backed-up memory Lithium cell ^{1,2}	Backed-up memory Lithium cell ^{1,2}

1.0) 80-Series Ver 2.0 radios: ID List =100 max.; Status List = 50 max.
80-Series Ver 1.x radios: ID List =32 max.; Status List = 32 max.
KDS-100: ID List =511 see note 1.1 for Status List capacity

1.1) The KDS-100 dynamically reallocates message memory as it receives any type of message. Maximum capacity ranges from 367 messages (255 char. or less per message) to 76 messages (1024 char. per message). The KDS-100 can thus hold: 367 Status Messages, 367 Short Text Messages, 76 Long Text Messages, or 100 Status Messages & 267 Short Text Messages.

1.2) The rechargeable lithium cell will maintain volatile RAM memory for 2 months if the KDS-100 is disconnected from a DC supply.

Optional Accessories



KCT-34
80-Series Mobile / KDS-100
Interface Cable (0.98 ft.)



KCT-35
60G / 62G-Series Mobile / KDS-100
Interface Cable (0.98 ft.)



KCT-36
KCT-34/35 Extension Cable (9.8 ft.)

Specifications

Modem Encode Level	100 – 1,000 mVrms (@1,200Hz/600Ω)
Modem Decode Level	100 – 1,000 mVrms (@1,200Hz/600Ω)
Data Backup Period	> 2 months
Bit Error Rate	
1,200 bps	< 0.5 % (12dB SINAD)
2,400 bps	< 0.5 % (12dB SINAD)
Current Drain	< 700 mA
Dimensions (W x H x D)	
	7.36 x 3.46 x 1.65 in (187 x 88 x 42 mm) (without projections)
	7.36 x 3.46 x 1.83 in (187 x 88 x 46.5 mm) (with projections)
Net Weight	1.1 lb (500g)

FleetSync is a trademark of Kenwood Corporation.

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

Applicable MIL-STD

Standard	MIL 810C Methods / Procedures	MIL 810D Methods / Procedures	MIL 810E Methods / Procedures
Dust	510.1/ Procedure I	510.2/ Procedure I	510.3/ Procedure I
Vibration	514.2/ Procedure VIII, X	514.3/ Procedure I, Cat.8	514.4/ Procedure I, Cat.8
Shock	516.2/ Procedure I, II, V	516.3/ Procedure I, IV	516.4/ Procedure I, IV



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ISO9001 Registered
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