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.

Large Memory Capacity

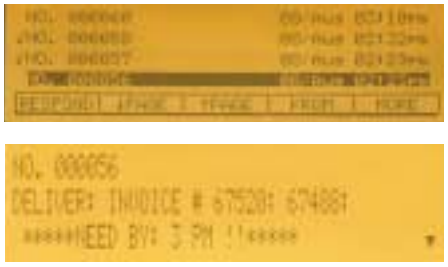
The KDS-100 has a 100 ID List capacity for selecting individuals and sub-fleet groups; this is ideal for selective call/messaging when the KDS-100 is used as a control station/base unit for a large fleet. Also, fleet mobiles can utilize this capacity to select and decode-display more IDs than the normal 80-Series ID List allows (100). Stack memory can hold up to 368 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*, which are 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



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 kbps) provides FleetSync signaling even to non-FleetSync mobiles (except Caller ID and Caller Stack).

Remote Control Head Functionality (80-Series mobiles only)

Mobile channel group/channel or system/group and volume can be controlled with the KDS-100. This provides simple control head operation, so the mobile radio can be installed out of sight (for anti-theft reasons) or out of the way (for mounting ease).

Note: the mobile's internal or external speaker must still be audible.

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

❑ Table 1.0: 80-Series Comparison with and without the KDS-100

FleetSync™ Feature	80-Series Mobile-only	80-Series & KDS-100
ID List Capacity	100 [1.0]	100 [1.0]
Status Message Display	1 msg. x 16 char. (Scroll-displayed)	5 msg. x 16 char. (List-displayed)
Status Message Capacity	9	367 max.[1.1]
Short Text Message Display	1 msg. x 48 char. (Scroll-displayed)	1 msg. x 48 char. (Page-displayed)
Short Text Message Capacity	4	367 max.[1.1]
Long Text Message Display	– Not available -- (Serial output only)	1 x 1024 char. (Page-displayed)
Long Text Message Capacity	1	91 [1.1]
LCD Character Capacity	10 char. X 1 line	40 char. x 6 line (Max.)
Message Memory Storage	Volatile memory	Lithium backup battery (2-month backup)

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 =100 max.; see note 1.1 for Status List capacity

1.1) The KDS-100 dynamically reallocates message memory. Maximum capacity ranges from 367 messages (255 char. or less per message) to 91 messages (1023 char. or less per message).
The KDS-100 can thus hold: 367 Status Messages, or 367 Short Text Messages, or 91 Long Text Messages, or 100 Status Messages & 267 Short Text Messages.

❑ Table 2.0: KDS-100 Modes & Options Required

Mobile Series	KDS-100 Mode [2.0]	Mobile FS Parameters [2.2]	KDS-100 FS Parameters [2.3]	Option(s) Required per mobile (FS= FleetSync)
80	PC	ID (own)	ID List Status List	FS Enhanced Option KCT-34 Cable (0.98 ft.)
80	Air	None	ID (own) ID List Status List	KCT-34 Cable (0.98 ft.)
60G/ 62G [2.1]	Air	None	ID (own) ID List Status List	KCT-35 Cable (0.98 ft.)

2.0) Upon initial KPG-71D / KDS-100 setup, the system operator programs the KDS-100 for PC or Air protocol modes: FleetSync PC mode (80-Series only): All FleetSync parameters are programmed in the KDS-100 (except the mobile's own ID). The KDS-100 performs all FS storage, display, selection and control operations for FleetSync messaging, but the mobile's internal FS modem is used instead of the KDS-100 internal modem.
FleetSync Air Protocol mode (80-Series or 60/62G-Series): All FleetSync parameters are programmed in the KDS-100, including the mobile ID. The KDS-100 performs all FS storage, display, selection and control operations for FleetSync messaging and the KDS-100 internal modem is used (not the mobile's). In this mode, the mobile can execute simple PTT-activated Selective Calls with the mobile microphone PTT rather than the KDS-100 function keys (Selective Call Type=SEL; ID No. 1 automatically used per PTT).

2.1) 60G/62G Mobiles do not have any inherent FleetSync features nor display capabilities. FleetSync features are all originated and controlled in the KDS-100 (as is the case with the 80-Series used in the Air Protocol mode).

2.2) Refer to the KPG-49D (80-Series FPU) / KPG-56D (60G/62G-Series FPU) and the KDS-100 Service Manual for FleetSync-related mobile programming parameters (set COM1= Data; set all memory stacks=NO; set all Message serial outputs =YES; set ID (own) for this radio (80-Series only).

2.3) Refer to the KPG-71D software for detailed KDS-100 programming instructions.

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 2,400 bps	 < 0.5 % (12dB SINAD) < 0.5 % (12dB SINAD)
Current Drain	< 700 mA
Dimensions (W x H x D, mm)	187 x 42 x 88 (without projections)
	187 x 46.5 x 88 (with projections)
Net weight (kg)	0.5

Applicable MIL-STD

	Method / Procedure		
	810C	810D	810E
Dust	510.1/ Proc. 1	510.2/ Proc. 1	510.3/ Proc. 1
Vibration	514.2/ Proc. 8, 10	514.3/ Proc. 1 Cat. 8	514.4/ Proc 1 Cat. 8
Shock	516.2/ Proc. 1, 2, 5	516.3/ Proc. 1, 4	516.4/ Proc. 1, 4

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.)

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