



HAL COMMUNICATIONS CORP.

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DS 2000 KSR



LOW COST KEYBOARD SEND-RECEIVE TERMINAL

The DS2000 KSR is a compact and low cost communications terminal for transmission and reception of Baudot, ASCII, and Morse codes (Morse receive optional). The terminal features a 72 character line by 24 line display format, two 32 character programmable "Here Is" messages, and CW identification at the touch of a key. A terminal status line keeps the operator aware of data rate, data code, and other terminal conditions. Text is transmitted one word at a time and editing is possible anywhere in the line being composed. All terminal functions are controlled by a combination of a control key and a key from the top row of the keyboard. Other deluxe features of the DS2000 KSR such as unshift-on-space, keyboard operated switch, and QBF and RY test messages have been incorporated for simplified operation. An optional Morse receive board (MR2000) is available for reception of Morse code at rates from 1-175 WPM and is customer installable allowing purchase at a later time. An optional 9 inch diagonal measure video monitor is also available.

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SPECIFICATIONS

Input/Output:

Baudot: 18-120 ma, 200 vdc (max.) current loop
ASCII: 18-120 ma, 200 vdc (max.) current loop
Morse: Transmit = transistor switches to ground to key either negative voltage ("grid-block"), or positive voltage ("cathode") circuits.
Receive = (with optional Morse receive board)
0.5v p-p (600 ohm), 800 Hz audio input

Data Rates:

Baudot: 45, 50, 57, 74, 100 baud (60, 66, 75, 100, 132 wpm).
ASCII: 110, 300 baud (10, 30 characters per second)
Morse: Transmit = settable to within 1 wpm, 1 to 175 wpm.
Receive = automatically track 1 to 175 wpm (with optional Morse receive board).

Data Codes:

Baudot: 7.5 Unit code (1 start, 5 data, 1.5 stop)
A - Z, \emptyset - 9, -?:\$!&#(), BELL; //LTRS FIGS CR LF space blank; Automatic FIGS/LTRS and CR/LF inserted as required.
ASCII: 110 baud, 11 unit code (1 start, 8 data, 2 stop)
300 baud, 10 unit code (1 start, 8 data, 1 stop)
A - Z (upper case only), \emptyset - 9, !"#%&'()*+,-./:;<>=?@ [] ^ _ \ , NUL SOH STX ETX EOT ENQ ACK BEL BS HT LF VT FF CR SO SI DLE DC1 DC2 DC3 DC4 NAK SYN ETB CAN EM SUB ESC FS GS RS US RUB OUT.
Morse: Continental Morse Code: A - Z, \emptyset - 9, ., ?; ; - / () " AR AS BT ES KN SK.

Transmit Mode:

WORD: Text is transmitted one word at a time. The word is transmitted when the first character of the following word is typed or after a RETURN at the end of a line.
Editing: Two cursors on the display show relative position of transmitted signal from DS2000 (or received signal when receiving) and position of keyboard entry. The entire screen may be loaded before transmitting. The keyboard cursor may be back spaced for editing to any position which has not been transmitted.
Transmit Text
Pre-typing: Up to 255 characters of transmit text can be pre-typed in hidden form while receiving.

Video Output:

Format: 72 characters per line, 24 lines total.
5 x 7 dot matrix pattern
Electrical: 75 ohm, 1.0 volt p-p, compatible with EIA RS-170 standards; Peak video bandwidth = 6.1 MHz; UHF, SO-239 type connector.

Programmable Features:

HERE IS: Two separate and programmable HERE IS messages with up to 32 characters per message.
IDENT: Sends contents of HERE IS-1 in Morse code, regardless of code terminal may be using.

Deluxe Features:

USOS: On Baudot reception, reverts to LTRS case after reception of each SPACE character.
SYNC: Synchronous idle to assist other station's reception. Fills time between characters with LTRS (11111) in Baudot, NUL (~~00000000~~) in ASCII, and BT (-•••-) in Morse.
KOS: Keyboard Operated Switch to control the transmit-receive circuitry of a radio station.
Status Line: The current terminal operating parameters can be displayed at any time on the top line of the display.
Keyboard: Standard 52 key ASCII arrangement with SHIFT and CTRL; terminal controls are made with CTRL key plus one of top row of keys—all control features are clearly labeled.
Test Messages: The standard QBF test message (THE QUICK BROWN FOX JUMPS OVER THE LAZY DOG'S BACK \emptyset 12345 5689) or alternate code patterns (RYRY ... in Baudot, U*U*... in ASCII).
Sidetone: Sidetone audio in Morse transmit mode. Also serves as a bell tone.

Mechanical Data:

Size: 14.1" W x 9.25" D x 4.35" H; 10 lbs net, 15 lbs shipping (35.8 x 23.5 x 11.1 cm; 4.55 kg net, 6.82 kg shipping)
Colors: Textured blue bottom, beige top.
Power: 105-130 vac 50/60 Hz; 210-250 vac 50/60 Hz; 20 watts

Options:

Display
Monitor: ESM-914 Recommended; 9" diagonal measure screen.
Morse Receive: MR 2000 Morse receive option circuit board. Plugs into socket on main circuit board of DS2000. Has audio filter, detection, and processing circuitry to allow reception of Morse code audio (800 Hz tones). Audio input connections and a threshold adjust control are accessible from rear of DS2000 cabinet after installation. A new set of ROM devices are included with the option.

A written copy of the applicable warranty may be obtained free of charge upon request. Specifications subject to change without notice.



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