

**DRAKE®**

Theta 7000E

Microprocessor-Controlled Communications Terminal

Complete, automatic send/receive of morse code (cw), Baudot code (RTTY) and ASCII code (RTTY) with the addition of any video monitor for display. The perfect addition to complement any amateur radio installation. Below are a few of its outstanding features:



Suggested List

Model 7000	Drake Theta 7000E Terminal	\$1095.00
Model 7009	Drake TR-930 Video Monitor	\$ 185.00

7-channel Battery Back-Up Memory

The Theta 7000E has seven keyboard-selectable, non-volatile, random access memory channels each of which can hold 64 characters. Data in these memories is alterable at any time and is retained when power is removed. Messages in these memory channels can be repeated 1 to 9 times via keyboard command. All channels may be daisy-chained for continuous read-out. Channel number in use is indicated on display.

Wide Range of Transmitting and Receiving Speeds

Cw: 5 to 50 wpm in 10 keyboard selectable steps. Autotrack on receive.
RTTY: 9 keyboard selectable speeds with fine up/down speed adjust cover standards speeds of 60, 67, 75 and 100 wpm Baudot code and 110, 200, and 300 Baud ASCII code.

Variable Cw Weight

Keyboard selectable weight control from 1:3 to 1:6.

Crystal Controlled AFSK Modulator

For transceivers without direct FSK connections. High stability oscillator provides following outputs in both Baudot code and ASCII code:

High Tone Pairs	Shift	170 Hz	425 Hz	850 Hz
	Mark	2125	2125	2125
	Space	2295	2550	2975
Low Tone Pairs	Shift	170 Hz	425 Hz	850 Hz
	Mark	1275	1275	1275
	Space	1445	1700	2125

NOTE: Selection of High/Low tone pairs automatically selects corresponding filter pair in demodulator section.

Cont'd next page...

Self Contained Demodulator	Three-step shift selects either 170 Hz, 425 Hz or 850 Hz shift with manual fine tune control of space channel for odd shifts. High/low tone pair select. Mark only or space only copy capability for selective fading.
Printer Interface for Hard Copy	Centronics-compatible interface for parallel input printers.
Composite Video Output	Composite video output provides 1.0 Vpk-pk into 75 ohm for any standard video monitor.
Kansas City Standard AFSK Output	KCS tone pair of 2400 Hz mark and 1200 Hz space.
Convenient Keyboard Arrangement	Keyboard layout is the same as standard typewriter with color-coded control keytops.
Large Capacity Display Memory	Two page display memory contains 32 x 16 lines per page. Page selection is keyboard-selectable.
Split-Screen	With a keyboard command, the display can be divided in two; the upper half for transmit and the lower half for receive. Messages can be composed while receiving.
Buffer Memory	53 character keyboard buffer.
Word Wrap-Around	In receive mode, word wrap-around prevents the last word on a line from becoming split in two. Moves whole word to next line.
Automatic Transmit/Receive Switch	Automatic keyboard-operated transmit (KOX) or manual keyboard transmit. Front panel selectable.
Unshift on Space	Keyboard-selectable. Reverts to LETTERS case after reception of each space character in Baudot code.
Carriage Return/Line Feed (CR/LF) Cancel	Keyboard-selectable. Replaces CR and LF with = (equal) and _ (underline) symbol respectively for more efficient use of display.
Cursor Control	Full cursor control (up/down/left/right) available from keyboard.
Word Mode	Characters can be transmitted in word groupings. Front panel selectable.
Automatic CR/LF	While transmitting, CR/LF is automatically sent every 60, 72 or 80 characters. Keyboard-selectable.
Automatic Letters Code Insertion	With front panel LETTERS switch on, LETTERS code can be transmitted continuously in a pause of transmitting from the keyboard.
Cw Identification	Keyboard-controlled cw identification in RTTY modes.
Echo Function	With keyboard instruction, prerecorded cassette tapes can be read and transmitted.
Test Messages	Two built-in test messages, "RY" and "QBF" are keyboard selectable.
Cw Practice	Theta 7000E reads data from hand key and displays characters.
Oscilloscope Outputs	Mark and space channel filter outputs on rear panel. Supplements the tuning LED's and audio monitor.
Audio Monitor	A built-in audio monitor circuit with automatic transmit/receive switching enables checking of the transmit/receive tones. In the receive mode, it is possible to monitor the output of the mark channel, the space channel or incoming audio from the agc amplifier prior to the channel filters.
Transmitter Keying Circuitry	Keys either grid block, cathode keyed, or solid-state transmitters.
Single Power Supply	The Theta 7000E requires only 13.6 Vdc @ 1 amp. Plugs into 13.6 Vdc accessory jack on PS7 or PS75 power supplies.
Effective Packaging for RFI Protection	Well designed metal cabinet and protective circuits prevent RFI.

Specifications, availability and prices subject to change without notice or obligation.

R. L. DRAKE COMPANY



540 Richard St., Miamisburg, Ohio 45342
Phone: (513) 866-2421 • Telex: 288-017