

CWR 6850



TELEREADER KSR TERMINAL

The CWR 6850 is a compact electronic communications terminal designed for reception and transmission of Baudot and ASCII Radio Teleprinter (RTTY) signals as well as Morse code (CW) signals. The CWR 6850 includes a built-in green phosphor CRT display screen and RTTY and Morse demodulators. The very small size of the CWR 6850 makes it particularly ideal for camper, boat, and other portable installations where space for equipment is limited. Since the terminal operates from 12 VDC, it may be easily used in locations where AC power is not readily available. The CWR 6850 comes with a separate full but detachable keyboard. Without the keyboard, it is a convenient and small receive-only terminal; attach the keyboard and add transmitting capabilities. The screen of the CWR 6850 is formatted in 20 lines of 32 characters per line; a total of four different screen pages may be selected. The internal RTTY demodulator allows selection of all three standard shifts (170, 425, 850) for either the "High

Tones" (U.S. standard) or "Low Tones" (IARU standard). Transmit AFSK tones match the receive demodulator combination selected. Other transmit features include up to 15 lines of pretype on-screen buffer, automatic transmit/receive control (KOS), and a total of six 64-character programable HERE IS messages. A parallel ASCII printer output is provided for connection to a receive printer.



CWR6850 TELEREADER

SPECIFICATIONS

Input/Output:

20mV to 2 V rms, 8 ohm audio Audio:

Morse: 800 Hz center frequency

RTTY: 1000-3000 Hz

Tape: Input and output audio

External speaker and headphone jack

TTL: TTL data input and output jacks

Transistor switch for positive or negative volt-Morse:

ages

Data Codes and Rates:

Baudot (5-unit) or ASCII (8-unit) codes; 45, RTTY:

50, 57, 75, 110, or 300 baud

3 to 40 wpm receive Morse:

4 to 33 wpm transmit with weight control

Modem:

800 Hz Active filter or phase-lock loop Morse:

Mark = 2125 Hz **US Standard**

Space = 2295 Hz (17Ø Shift) "High Tones"

= 255Ø Hz (425 Shift) = 2975 Hz (85Ø Shift)

IARU Standard Mark = 1275 Hz

"Low Tones" Space = 1445 Hz (170 Shift)

= 1700 Hz (425 Shift)

= 2125 Hz (85Ø Shift)

Transmit audio tone frequencies automatically set with demodulator switches to match receive tones. AFSK CW-ID tone shift available; front panel adjustable receive shift con-

Display:

5 inch diagonal measure (3.25" × 4.25") green Internal

20 lines of 32 characters per line; 4 display Monitor:

pages (total of 80 lines of display).

Page 1: 15 lines Rx data; 3 lines Tx buffer; 2

blank lines;

Page 2: 3 lines latest Rx; 15 lines Tx buffer; 2

blank lines;

Page 3: 3 lines latest Rx; 12 lines HERE IS

text; 2 blank lines; 3 lines Tx buffer;

Page 4: 20 lines Rx data.

Green characters on dark screen background. Polarity:

Composite video, 1.0 V p-p, 75 ohms. External:

Automatic Keyboard Operated Switch (KOS) TX/RX Control:

or manual keyboard or manual front panel switch control of station transmit-receive

circuitry (plus voltage).

Indicators:

Four front panel LEDs for power, CW Detect, LED:

RTTY mark and RTTY space indication.

Rear panel connections to "X-Y" tuning Scope:

oscilloscope (Tuning oscilloscope NOT in-

cluded).

55 keys plus space bar, ASCII keyboard ar-**Keyboard:**

rangement.

Message Storage:

Six 64-character user-programmable HERE IS

texts. CW ID may be included within HERE IS

text.

Printer Output: Parallel, 12-wire Centronics—compatible printer output; 7 bit parallel ASCII code; prints text as it is received for either Baudot,

ASCII, or Morse.

Front Panel Controls:

CLEAR ON, FILTER ON, SPACE/NARROW, Switches:

MODE A/MODE B, AUTO ON, PAGE, ASCII/BAUDOT, CW/RTTY, FIG ON, LTR ON, U.S.O. ON, NOR./REV., 45.5, 50, 57, 75, 11Ø, 3ØØ (BAUD), 17Ø, 425, 85Ø (SHIFT), HIGH TONE, LOW TONE, RX/TAPE, POWER ON,

SEND/OFF.

Controls: INPUT (audio level), VOLUME (sidetone

monitor), SPEED (CW transmit), SHIFT (RTTY).

Indicators: POWER, CW, MARK, SPACE.

Rear Panel:

BRIGHT (CRT intensity), AFSK GAIN (transmit Controls:

level).

KEYBOARD, PRINTER, EXT SP, PHONE, Connectors:

TELEGRAPH KEY, FSK TTL IN, FSK TTL OUT. AF OUT, REMOTE, SW OUT FSK CW, AFSK OUT TX, AFSK OUT TAPE, AF IN TAPE, AF IN RX, OSCILLO SPACE, OSCILLO MARK, DC

13.8V.

Mechanical Specifications:

CWR6850: Keyboard:

 $12.75'' \times 5'' \times 11.75'' (32.3 \times 12.7 \times 27.6 \text{ cm})$ $13.75'' \times 2'' \times 7.25''$ (34.9 × 5.1 × 18.4 cm)

16.5 lbs net, 20 lbs shipping (incl. keyboard)

7.5 kg net, 9.1 kg shipping (incl. keyboard)

Power:

12 to 14.5 VDC (13.8 VDC nominal), 1.6 Amps.

