RC 851
Display Terminal

- **MICROPROCESSOR BASED**

- **GENERAL-PURPOSE TERMINAL**

- **APPLIED ERGONOMICS IN DESIGN**

- **2000 CHARACTERS DISPLAY CAPACITY**

- **DATA RATES UP TO 9600 BPS - CCITT V. 24 INTERFACE**

GENERAL

The RC851 display terminal is based on the Z 80A microprocessor. It is a scroll mode, tty-compatible terminal of the RC850 terminal system and the terminal is factory programmed to the below mentioned characteristics. It features compability with the RC822 B terminal and can be connected to RC8000, RC3600 and RC3500 host systems.

Applied ergonomics in design substantially have improved the operator's place of work. The noiseless display is based on a large, 38 cm screen and allows for height adjustment and tilting by simple lever action. The detachable, low-profile keyboard as well permits the operators to arrange for the proper working conditions individually.

The terminal features a 96 character Danish character set, a standard typewriter keyboard layout with additional function keys and a separate numeric cluster. Other character sets and keyboard layouts will be facilitated upon agreement. The display features protected fields controlled by the attribute function which is assigned to each character position. Built-in dianostics are automatically executed at each terminal start-up.

The communications interface is serial asynchronous (CCITT V. 24). The data rates range from 110 to 9600 bps, controlled from the keyboard. The connection is locally supported by multiplexeres (RC3682, RC35-104) and by current-loop couplers (RC886/F 86); remotely by moderns (V. 22 and V. 23) and by terminal concentrators (RC800-20, RC800-21). Further the terminal is prepared for X.21 connection. A printer can be connected directly to the RC851 terminal, which provides an optional hard copy facility.

SPECIFICATIONS

Processor:	Z 80 A (4 MHz), 158 instructions including standard 8080 instruction set self-test feature.
Memory:	Dynamic MOS, RAM and factory programmed EPROM.
Display capacity:	2000 characters in 25 lines 80 characters each ; refresh memory : Static MOS , RAM ; refresh rate: 50 or 60 Hz (factory set). Attribute function on each character position.
Display screen:	15-inch (38 cm) screen, green, non-glare.
Character image:	Generation: 14x16 dot matrix; size: 6x3 mm (h x w).
Character set:	96 characters, upper/lower case, Danish character set. set.
Cursor:	Position addressable, blinking, inversion of character. Movements: Up, down, left, right, home, and return.
Attribute function:	Protected fields.
Editing functions:	Erase end-of-line, erase end-of-screen, clear, tab., print on, print off.
Function keys:	Select, clear, tab., print on, print off.
Keyboard features:	N-key rollover, auto repeat, adjustable key-sound (may be silenced completely).
Indicator:	Program controlled audio-visual indicator (may be silenced).
Comm. mode:	Full-duplex.
Comm. connection:	CCITT V. 24 (RS 232 C), socket confirms to ISO 2110.
Comm. format:	Serial, asynchronous with 1 start bit, 7 data bits, 1 parity bit (even parity), 1 stop bit (110 bps: 2 stop bits). Prepared for X.21.
Comm. speeds:	110-9600 bps.
Printer output:	As communications above (connection, format, speeds), controlled by print on/off control characters.
Power requirements:	220 V AC ± 10%, 50 or 60 Hz (factory set) ± 2 Hz, 100 W
Temperature, amb.:	10-40°C (50-104°F)
Humidity:	0-95% relative, non-condensing

DIMENSIONS

	Display	Keyboard
Height:	39-49 cm (15.4-19.4 in.)	8.5 cm (3.4 in.)
Width:	47 cm (18.5 in.)	44 cm (17.3 in.)
Depth:	33 cm (13 in.) non-tilted tiltable ± 10° by lever action	25 cm (9.9 in.)
Weight:	20 kg (44 lb.)	3 kg (6.6 lb.)