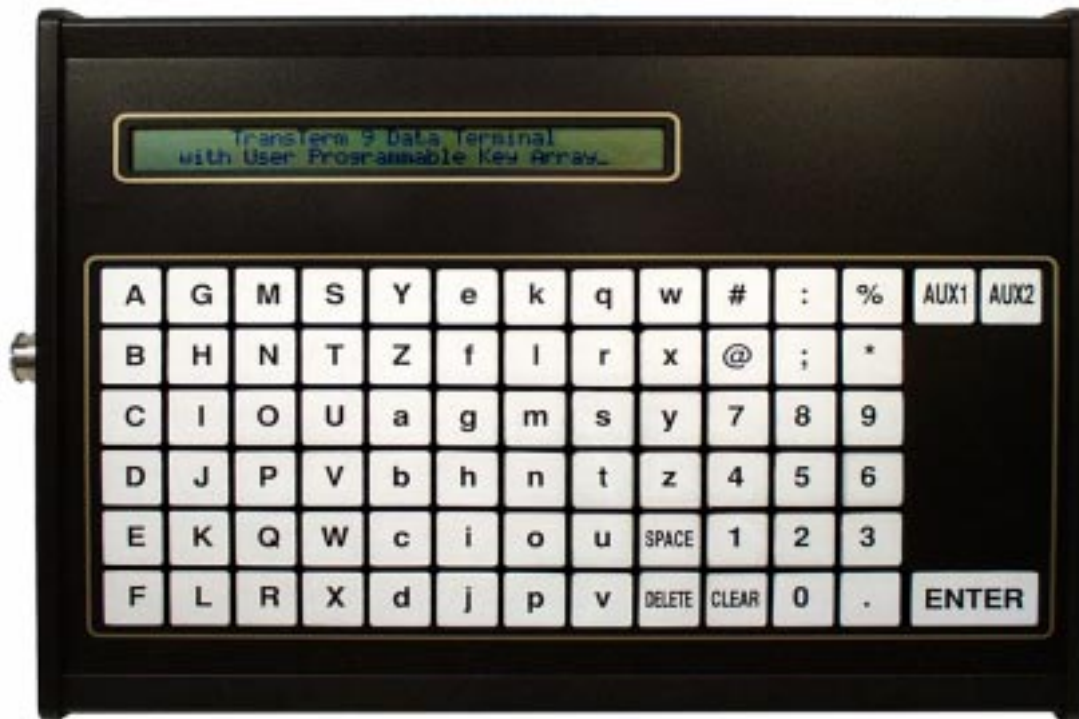


# TransTerm 9B Data Terminal



## 72-KEY PROGRAMMABLE KEYBOARD

### **Overview**

The *TransTerm™ 9B* is an RS-232/RS-422 serial ASCII keyboard/display data terminal designed for applications which require a large number of user-defined function keys which can be user re-configured. Information is displayed on a two-line by 40-character alphanumeric liquid crystal display.

### **Applications**

Applications for the *TransTerm 9B* include point-of-sale cash register emulation, restaurant order entry systems, shop-floor menu selection, quality control, , inventory tracking, data entry, etc. When equipped with the optional relay output(s), the *TransTerm 9B* can be used to control external equipment such as doors, alarms or production machinery.

### **Keyboard Array**

The *TransTerm 9B* features a 72-key sealed membrane keyboard array. Each key can be programmed with a unique ASCII code generated when the key is pressed. Additionally, any key can be designated an "auto-ENTER" key and thereby produce an "ENTER" code immediately following the assigned primary code. The keyboard can be placed in or out of the "auto-ENTER" mode remotely for added flexibility.

### **Customizable Legend**

Legends for the *TransTerm 9B* can be custom created from our templates. Key surfaces which are visible through a clear window can be iconographic or textual, color or black and white.

### **Network Capability**

The standard RS-232C communications interface provides the capability to directly connect the *TransTerm 9B* to most computer systems or the optional RS-422 TNET interface allows up to 250 terminals to be connected on a common network to the TIM1B controller which connects to the host computer via an RS-232 communications port. Also available is WINNET, an off-the-shelf WIN 9x data collection program which simplifies TNET implementation.

### **Options**

The *TransTerm 9B* outfitted with an integrated barcode decoder will supports various barcoding devices including a contact wand, badge reader, handheld CCD, magnetic stripe card reader, or laser scanner. Other options include an auxiliary serial port, pulse output, or up to four serial outputs. An optional tilt bracket for desktop or wall-mount use is available.

# TT9B Features

## Operation

The TransTerm 9B can operate in one of three modes:

1. TTY Mode
2. BLOCK SEND Mode
3. TNET Multidrop Mode

In TTY and BLOCK SEND modes, ASCII data received by the TransTerm 9B is placed on the display at the cursor position. The cursor moves from left to right and from top to bottom. In the TTY mode, the keyboard data is transmitted as it is keyed. In the BLOCK SEND mode and in the TNET multi-drop mode, keypad data is locally placed on the display and transmitted only after the ENTER key is pressed. In the TNET mode, the TransTerm 9B must be selected with its address in order to receive and process data or send entered data. In all three modes, the terminal recognizes the various ASCII control codes and numerous escape sequence commands.

## Display

The super-twist liquid crystal display features two-lines of 40 columns with 93 displayable ASCII characters (upper/lowercase, numerics and special symbols) in a 5 x 7 dot matrix font, blinking cursor symbol, and variable contrast control from the keyboard or by escape command. Character size is .179" high by .124" wide (4.55mm x 3.15mm). Optional EL backlight is available.

## Keyboard

72-key membrane keyboard is organized in six rows of twelve columns each with each key having a clear-window overlay. "ENTER" key plus "AUX1" and "AUX2" shift keys are to the right of main array.

- Hermetically sealed key switches.
- Audible key-click for tactile feedback.
- Key spacing — .8" vertical, .75" horizontal.
- Key switch travel — .006"-.008" typical.
- Actuating force — 4-6oz.
- Rated Life — 10,000,000 cycles (per switch element)

## Communications

The standard RS-232 communications interface allows the TransTerm9B to be easily interfaced directly to any host computer which has a serial communications port. The optional RS-422 compatible TNET interface allows the *TransTerm 9B* to communicate point-to-point over long cable runs, or to be multi-dropped in a network with other like devices under control of the TNET polling protocol which is inherent in the ComputerWise TIM1B network controller. Up to 250 terminals can be supported on a TNET system. Off the shelf data collection software for PC/AT/PS2 computer systems can minimize implementation time and expense.

## Options

The *Barcode Decoding Option* adds the electronics and a panel mounted connector to the *TransTerm 9B* for interfacing a digital bar code wand or any laser or CCD scanner which produces signals compatible therewith. The decoding option will autodiscriminate Code 39, Extended Code 39, UPC-A, UPC-E, EAN-8 EAN-13, CODABAR, I2of5, and Code 128. Each of these symbologies can be enabled/disabled under SETUP or program control. The bar code port has a 5-pin DIN connector.

The *Magnetic Stripe Card Reader (MCSR) Interface Option* adds the electronics to decode the raw data from the MR-211 manual swipe reader which can read the magnetically recorded information found on Track 2 of a standard ABA credit card. The MCSR interface reads the 40 digit numeric data record off the card as it passes through the read station, decodes the data, and processes as if key-entered from the keyboard. The MCSR interface nor-

mally connects to the MR-211 reader with a six-inch cable.

The *Auxiliary Serial Port Option* adds a second serial communication port to the *TransTerm 9B* which is controllable with ESCape commands from the computer. The auxiliary serial port might typically be used to output data to a serial printer or to input data from a scale, etc.

The *Pulse Output Option* gives the *TransTerm 9B* the capability to generate a programmed pulse output under software control via ESCape commands sent from the computer. This option could be used to actuate a door strike or to open a cash drawer, etc..

## Accessories



- |                                          |                                   |
|------------------------------------------|-----------------------------------|
| 1. Wand Holder (910219)                  | Card Reader                       |
| 2. QS6000 Handheld Laser Barcode Scanner | 6. WA6100 (Bar code Wand Scanner) |
| 3. CCD-81T Handheld CCD Scanner          | 7. Tilt Bracket                   |
| 4. SL1003 Barcode Slot (ID Badge) Reader | 8. HB3S-A300 Barcode Wand Scanner |
| 5. MR211 Magnetic Stripe                 | 9. WA3800 Barcode Image Scanner   |

## Specifications

### Construction

Light weight aluminum extrusions on front and back aluminum top and bottom panels with left and right ABS panels.

### Dimensions

Height: 1.75" (4.4cm)  
Width: 12" (29.6cm)  
Depth: 9.0" (17.5cm)

### Weights

Basic Unit — 1.75 lbs.  
Power Adapter — .500 lbs.

### Operating Environment

Temperature: 0° to 60° C (32 to 120°F)  
Humidity: 5% to 95% non-condensing

### Storage Environment

Temperature: 30° to 70° C (-4° to 158°F)  
Humidity: 0% to 100%

### Power Consumption

Standard TT9: 130ma.  
With Backlight Display: +35ma.  
With RS-422 TNET option: +30ma.

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