



## FEATURES

- ANSI 3.64 (VT-100) Compatibility
- Membrane or Elastomeric Keypad
- 10 Function Keys Programmable as Characters or Strings
- Menu or Host-driven User Parameter Selection
- Up to 19,200 bps Communications
- Advanced Control Mode (ACM)
- LED Indicators Available
- Three (3) Year Warranty
- Battery Powered Available

**Height:** 7.15 inches (181.6 mm)  
**Width:** 4.10 inches (104.1 mm)  
**Depth:** 1 inch (25.4 mm)  
**Depth with battery:** 1.65 (41.91 mm)  
**Weight:** 8 oz. (227 g.)  
**Weight w/Battery:** 18 oz. (510 g.)  
**Case:** Rugged Cylolac® ABS

# 80 Series

## ••• hand held terminal

Unit depicted with custom graphics

Looking for a rugged and fully functional ANSI (VT-100) compatible hand held? The 80 Series line of hand held terminals provide you with an industrial solution that offers flexible operation. The ANSI 3.64 (VT-100) compatibility makes it the perfect hand held solution for existing products. Nearly every aspect of operation—from the viewing angle (contrast control) to the function key definitions—are easily changeable utilizing simple menu selections or direct host control. Ten distinct function keys can be redefined as characters or strings (maximum of 200 bytes overall) and saved in non-volatile memory. I/O configurations include RS-232, RS-422 as well as standard CMOS/TTL logic levels. A rechargeable battery, or the ability to use commercially available alkaline batteries, for portable applications is one of many options available. A retractable hanger comes standard with the non-battery unit.

Selling globally? The 80 Series offers display options that support a variety of optional character sets such as Latin 1 or European. With the "programmable character" capability, you have the ability to create characters that are not supported in the display's font table. What better way to give your products a competitive edge!

Like all Two Technologies' products, the 80 Series terminals are remarkably rugged. The case is molded from Cylolac ABS®, one of the most durable, chemical-resistant materials available today. Securely framed and clamped into place, the keypad surface provides excellent splash resistance and prevents curling or peeling of the keypad overlay. Keypad layouts include 45, 30, and 20 keys available with standard or custom graphics (other key configurations are available with custom graphics). The standard key release detection is a particularly useful feature for setting variables and for applications where motion control is essential.



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# 80 Series Specifications

## DISPLAY

- Reflective/Transreflective Liquid Crystal Display
- LCD Twisted Nematic Display (standard)
- Supertwist Display
- LED Supertwist Backlit
- Extended Temperature Vacuum Fluorescent Display\*\*
- Extended U.S. ASCII character set
- LED Indicators (option)
- 4 Line x 20 Characters
- Vacuum Fluorescent Display (VFD)\*\*
- Supertwist Backlit
- Extended Temperature Supertwist Backlit
- Dark Characters on Light Background (not VFD)
- Menu controlled contrast setting

## KEYS & SWITCHES

- Membrane or Elastomeric
- Backlit (option)\*\*
- Feedback: Tactile and Audible
- 45-key (max.), 30-key, or 20-key
- Phosphorescent (option)
- Standard or Custom Layout
- Backlit Phosphorescent (option)\*\*

## INTERFACE

- Handshake: 2 lines (RS-232)
- Parity: Even, Odd, Mark, Space, Ignore
- Connector: 6-pin female modular, optional permanent or custom cable configurations
- RS-232, RS-422, CMOS/LSTTL Levels
- E-Stop switch (option)
- Data rates: 300 - 19,200 bps
- Control Bits: 1 start and 1-2 stop bits

## POWER

- 5 VDC Regulated +/- 5%
- Battery option available
- Some options require additional current (Example: Backlight adds 50 mA)
- Nickel Metal Hydride rechargeable batteries
- 7.5-12 VDC Linear Regulator\*
- Current: 45-50 mA (RS-232 and RS-422)
- 9.5-28 VDC Switching Regulator
- AA Alkaline batteries (6) (not shipped with unit)
- \*maximum voltage depends on current draw

## ENVIRONMENT

- Nematic Displays
- Storage Temp: -20°C to +70°C
- Operating Temp: 0° to + 50°C
- Extended Temp: -20°C to +70°C
- Vacuum Fluorescent Displays
- Storage Temp: -20° to + 70°C
- Operating Temp: -20° to + 70°C
- Extended Temp: -40° to + 85°C
- Humidity 5-95% (non-condensing)

## USER SELECTABLE OPTIONS

- Baud
- Key Click
- Echo
- Viewing Angle
- Data Bits
- KNP Function
- Escape Mode
- Break Commands
- Parity
- Cursor
- CR/LF Mode
- Backlight
- Stop Bits
- Cursor Blink
- Self-Test
- Scroll on Last Character
- Display PE
- XON/XOFF
- Shift Lock
- Repeat
- Handshake

## CUSTOM OPTIONS

- Default settings
- Firmware
- Displays
- Case color
- Keypad graphics
- Logo Tag
- I/O interface
- LED Indicators

## CERTIFICATIONS

- FCC Class A
- CE \*
- CENELEC EMI Standards EN55022, CISPR Class A
- Electromagnetic Compatibility (EMC) EN50082-1
- Safety Standard EN60950
- \*in standard configuration

\*\*not available with battery option

