



## FEATURES

- ✦ ANSI 3.64 (VT-100) Compatibility
- ✦ Membrane or Elastomeric Keypad
- ✦ Menu or host-driven User Parameter Selection
- ✦ Up to 19,200 bps Communications
- ✦ Advanced Control Mode (ACM)
- ✦ LED Indicators Available'
- ✦ Battery Powered Available
- ✦ Three (3) Year Warranty

## DIMENSIONS

- ✦ **Height:** 7.15 inches (181.6 mm)
- ✦ **Width:** 4.10 inches (104.1 mm)
- ✦ **Depth:** 1 inch (25.4 mm)
- ✦ **Depth with battery:** 1.64 (41.91 mm)
- ✦ **Weight:** 8 ounces (227 grams)
- ✦ **Weight with battery:** 18 ounces (510 grams)
- ✦ **Case:** Cynolac® ABS with retractable hanger

# 80 Series

 **Handheld Terminal**  
Unit depicted with custom graphics

Looking for a rugged and fully functional ANSI (VT-100) compatible handheld? 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 Cynolac 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.





# 80 Series Specifications

<b>DISPLAY</b>	<p>Standard:</p> <ul style="list-style-type: none"> <li>• Reflective/Transreflective Twisted Nematic Display</li> <li>• 4 Lines x 20 Characters</li> <li>• Dark Characters on Light Background (except VFD)</li> <li>• Menu Controlled Contrast Setting</li> <li>• U.S. ASCII Character Set (Latin 1 or European optionally available)</li> </ul>	<p>Options:</p> <ul style="list-style-type: none"> <li>• Supertwist Nematic Display</li> <li>• Supertwist Backlit Nematic Display</li> <li>• LED Supertwist Backlit Nematic Display (line-powered units only)</li> <li>• Extended Temperature Supertwist Backlit Nematic Display</li> <li>• Vacuum Fluorescent Display (line-powered units only)</li> <li>• Extended Temperature VFD (line-powered units only)</li> </ul>
<b>KEYS &amp; SWITCHES</b>	<p>Standard:</p> <ul style="list-style-type: none"> <li>• 45-Key, 30-Key or 20-Key</li> <li>• Membrane or Elastomeric</li> <li>• Feedback: Tactile and Audible</li> </ul>	<p>Options:</p> <ul style="list-style-type: none"> <li>• Backlit (line-powered units only)</li> <li>• Phosphorescent (45-key elastomeric units only)</li> <li>• Backlit Phosphorescent (45-key line powered units only)</li> </ul>
<b>INTERFACE</b>	<ul style="list-style-type: none"> <li>• RS-232, RS-422, CMOS/LSTTL Level</li> <li>• Handshake: 2 lines (RS-232)</li> <li>• Data Rates: 300 to 19,200 bps</li> <li>• VT-100/ANSI 3.64 Compatibility</li> </ul>	<ul style="list-style-type: none"> <li>• Parity: Even, Odd, Mark, Space, Ignore, None</li> <li>• Data Bits: 7 or 8; Stop Bits: 1 or 2</li> <li>• Connector: 6-Pin Female Modular (optional permanent or custom cable configurations available)</li> </ul>
<b>POWER</b>	<p>Standard:</p> <ul style="list-style-type: none"> <li>• 5 VDC Regulated +/- 5%</li> <li>• 7.5-12 VDC Linear Regulator (maximum voltage depends on current draw)</li> <li>• 9.5-28 VDC Switching Regulator</li> <li>• Current: 45-50 mA Nominal for RS-232 &amp; RS-422 (some options require additional current, e.g., backlight adds 50 mA)</li> </ul>	<p>Options:</p> <ul style="list-style-type: none"> <li>• Nickel Metal Hydride Rechargeable Batteries or 6 AA Alkaline Batteries (not shipped with unit)</li> </ul>
<b>ENVIRONMENT</b>	<p>Nematic Displays:</p> <ul style="list-style-type: none"> <li>• Storage Temp: -20°C to +70°C</li> <li>• Operating Temp: 0° to + 50°C</li> <li>• Extended Temp: -20°C to +70°C</li> <li>• Humidity 5-95% (non-condensing)</li> </ul>	<p>Vacuum Fluorescent Displays:</p> <ul style="list-style-type: none"> <li>• Storage Temp: -20° to + 70°</li> <li>• Operating Temp: -20° to + 70°C</li> <li>• Extended Temp: -40° to + 85°C</li> <li>• Humidity 5-95% (non-condensing)</li> </ul>
<b>USER SELECTABLE OPTIONS</b>	<ul style="list-style-type: none"> <li>• Backlight (backlit display only)</li> <li>• Baud Rate</li> <li>• Break Commands</li> <li>• CR/LF Mode</li> <li>• Cursor and Cursor Blink</li> <li>• Data Bits and Stop Bits</li> <li>• Echo</li> <li>• Escape Mode</li> <li>• Handshake</li> </ul>	<ul style="list-style-type: none"> <li>• Key Click</li> <li>• KNP Function</li> <li>• Parity and Display Parity Error</li> <li>• Repeat</li> <li>• Scroll on Last Character</li> <li>• Self-Test</li> <li>• Shift Lock</li> <li>• Viewing Angle</li> <li>• XON/XOFF</li> </ul>
<b>CUSTOM OPTIONS</b>	<ul style="list-style-type: none"> <li>• Keypad and Keypad Graphics</li> <li>• Default Settings</li> <li>• Case Color</li> <li>• 4 LED Indicators</li> </ul>	<ul style="list-style-type: none"> <li>• I/O Interface</li> <li>• Firmware</li> <li>• Logo Tag</li> <li>• E-Stop with 10 Conductor Cable</li> </ul>
<b>CERTIFICATIONS</b>	<ul style="list-style-type: none"> <li>• FCC-Part 15, Subpart B Class A</li> <li>• CENELEC (in standard configuration): EMI Standards: EN55022 1998, (CISPR22, Class A), EMC Standards: EN50082-1 1997, General Immunity Part 1, Safety Standards: EN60950 2000, Safety of Information Technology Equipment</li> </ul>	

