



FEATURES

- Large Display - 8 rows x 24 characters or 16 rows x 32 characters (menu or host-selectable) with graphics capabilities
- Optional E-Stop)
- ANSI 3.64 (VT-100) Compatibility
- Keys Programmable as Characters or Strings
- Advanced Control Mode (ACM)
- Programmable Display Characters
- Menu or host-driven User Parameter Selection
- Up to 57,600 bps Communications (9,600 bps without handshaking)
- Three (3) Year Warranty

DIMENSIONS

- **Height:** 8.25 inches (209.6 mm)
- **Width:** 4.10 inches (104.1 mm)
- **Depth:** 1.15 inches (29.2 mm)
- **Weight:** 12 ounces (340 grams)
- **Case:** Rugged Cycolac® ABS

ProTerm

Handheld Terminal

Unit depicted with custom graphics

Looking for a feature-packed, large screen handheld terminal? The **ProTerm** features a Liquid Crystal Display (LCD) with text and graphics capabilities, contrast control, an optional EL backlight, programmable display characters, and optional host controlled LED indicators (4). The exceptional size and clarity of the LCD makes the ProTerm ideal where long term readability is required. The ProTerm's two menu selectable display modes include 8 rows of 24 characters for the ultimate in readability or 16 rows of 32 characters for maximum display density making this terminal the ideal choice in a wide variety of applications.

The ProTerm is ultra-flexible! Screen viewing angle (contrast), display mode, key output definitions, and character definition features are changeable via menu selections and/or direct host control. The standard key release detection is a particularly useful feature for setting variables and for applications where motion control is essential. Available I/O configurations include RS-232 and RS-422, as well as standard CMOS/LSTTL logic levels. ANSI 3.64 (VT100) compatibility makes it the perfect hand held solution for existing products. For an increased level of safety when controlling a motion-oriented task on a robotic device, the ProTerm's host activated Advanced Control Mode (ACM) allows the host and terminal to monitor one another and react to event changes (host actions are dependent on host software).

Like all Two Technologies' products, the ProTerm is remarkably rugged. The case is molded from Cycolac 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.



ProTerm Specifications

DISPLAY	<p>Standard:</p> <ul style="list-style-type: none"> • 192 x 128 Pixel Supertwist Nematic Display with Graphics Capabilities • Menu or Host Selectable Contrast Settings and Character Size (8 Lines x 24 Characters or 16 Lines x 32 Characters) • Blinking and Inverse Video Attributes • Dark Characters on Light Background • U.S. ASCII Character Set 	<p>Options:</p> <ul style="list-style-type: none"> • Supertwist Nematic Backlit Display • Supertwist Nematic LED Backlit Display • Extended Temperature Supertwist Nematic Backlit Display
KEYS & SWITCHES	<p>Standard:</p> <ul style="list-style-type: none"> • 45-Key, 30-Key or 20-Key • Membrane or Elastomeric • Feedback: Tactile and Audible 	<p>Options:</p> <ul style="list-style-type: none"> • Backlit Keypad • Phosphorescent (45-key elastomeric units only) • Backlit Phosphorescent (45-key units only)
INTERFACE	<ul style="list-style-type: none"> • RS-232, RS-422, CMOS/LSTTL Level • Handshake: 2 lines (RS-232) • Data Rates: 300 to 19,200 and 57,600 bps • VT-100/ANSI 3.64 Compatibility 	<ul style="list-style-type: none"> • Parity: Even, Odd, Mark, Space, Ignore, None • Data Bits 7 or 8 • Stop Bits: 1 or 2 • Connector: 6-Pin Female Modular (optional permanent or custom cable configurations available)
POWER	<ul style="list-style-type: none"> • 5 VDC Regulated +/- 5% • 7.5-12 VDC Linear Regulator (maximum voltage depends on current draw) 	<ul style="list-style-type: none"> • 9.5-28 VDC Switching Regulator • Current: 45-50 mA Nominal for RS-232 & RS-422 (some options require additional current, e. g., backlight adds 50 mA)
ENVIRONMENT	<ul style="list-style-type: none"> • Storage Temp: -20°C to +70°C • Operating Temp: 0° to + 50°C 	<ul style="list-style-type: none"> • Extended Temp: -20°C to +70°C • Humidity 5-95% (non-condensing)
USER SELECTABLE OPTIONS	<ul style="list-style-type: none"> • Backlight (backlit display only) • Baud Rate • Break Commands • CR/LF Mode • Cursor and Cursor Blink • Data Bits and Stop Bits • Echo • Escape Mode • Handshake • Key Click 	<ul style="list-style-type: none"> • KNP Function • Menu Mode • Parity and Display Parity Error • Repeat • Screen Size • Scroll on Last Character • Test • Shift Lock • Viewing Angle • XON/XOFF
CUSTOM OPTIONS	<ul style="list-style-type: none"> • Keypad and Keypad Graphics • Default Settings • Case Color • 4 LED Indicators 	<ul style="list-style-type: none"> • I/O Interface • Firmware • Logo Tag • E-Stop with 10 Conductor Cable
CERTIFICATIONS	<ul style="list-style-type: none"> • FCC-Part 15, Subpart B Class A • 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 	

