



PDS

Programmable Terminal

Unit depicted with custom graphics

FEATURES

- ✦ Fully Programmable
- ✦ 448k Flash EEPROM
- ✦ 512k Battery-Backed SRAM
- ✦ Comprehensive Built-in API for Rapid Development
- ✦ Program in "C" or Assembly Language on your PC
- ✦ Development Utilities Included for Assembly Programming
- ✦ "C" Library Available
- ✦ 2 Basic Compiler Available
- ✦ Up to 115.2k bps Communications
- ✦ Optional Battery-backed Real-Time Clock
- ✦ 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:** Cycolac® ABS with retractable hanger

Looking for a fully programmable handheld terminal? The PDS is a rugged, full featured programmable terminal that is ideally suited to a variety of applications where a level of complexity above that found in simple ASCII terminals is required. A comprehensive Applications Program Interface (API) allows a programmer to access services provided by the Proprietary Operating System (OS). A variety of functions, from simple display manipulation to high level operations, are easily put under direct application control through the API. The PDS features 448k bytes of Flash EEPROM and 512k bytes of battery-backed static RAM. The PDS is programmable using either "C" or Assembly language on your PC. The battery powered model is supplied with a rechargeable battery, but commercially available alkaline batteries can also be used. Interface options, including RS-232, RS-422 or RS-485 are available.

Selling globally? The PDS offers display options that support a variety of optional character sets such as Latin 1 or European. What better way to give your products a competitive edge!

Like all Two Technologies' products, the PDS is remarkably rugged. The case is molded from Cycolac ABS, one of the most durable, chemical-resistant materials available on the market 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. Keypads are available in membrane or elastomeric material.

Tremendous value and loads of power...all in a great little package.



DISPLAY	Standard: <ul style="list-style-type: none"> • Reflective/Transreflective Twisted Nematic Display • 4 Lines x 20 Characters • Dark Characters on Light Background (not VFD) • U.S. ASCII Character Set (Latin 1 or European optionally available) 	Options: <ul style="list-style-type: none"> • Supertwist Nematic Display • Supertwist Backlit Nematic Display • Supertwist LED Backlit Nematic Display (line-powered units only) • Extended Temperature Supertwist Backlit Nematic Display • Vacuum Fluorescent Display (line-powered units only) • Extended Temperature VFD (line powered units only)
KEYS & SWITCHES	Standard: <ul style="list-style-type: none"> • 45-key, 30-key or 20 key • Membrane or Elastomeric • Feedback: Tactile and Audible 	Options: <ul style="list-style-type: none"> • Backlit (line-powered units only) • Phosphorescent (45-key elastomeric line-powered units only) • Backlit Phosphorescent (45-key line-powered units only)
INTERFACE	<ul style="list-style-type: none"> • RS-232, RS-422, 485, CMOS/LSTTL Level • Handshake: 2 lines (RS-232) • Five Digital I/O Lines • Data Rates: Up to 115.2K bps 	<ul style="list-style-type: none"> • Data Bits: 7 or 8 • Stop Bits: 1 or 2 • Parity: Even, Odd, Mark, Space, Ignore, None • Connector: 6-Pin Female Modular (optional permanent or custom cable configurations available)
POWER	Standard: <ul style="list-style-type: none"> • 5 VDC Regulated +/- 5% • 7.5-12 VDC Linear Regulator (maximum voltage depends on current draw) • 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) 	Options: <ul style="list-style-type: none"> • Nickel Metal Hydride Rechargeable Batteries or 6 AA Alkaline Batteries (not shipped with unit)
ENVIRONMENT	Nematic Displays: <ul style="list-style-type: none"> • Storage Temp: -20°C to +70°C • Operating Temp: 0° to + 50°C • Extended Temp: -20°C to +70°C • Humidity 5-95% (non-condensing) 	Vacuum Fluorescent Displays: <ul style="list-style-type: none"> • Storage Temp: -20° to + 70° • Operating Temp: -20° to + 70°C • Extended Temp: -40° to + 85°C • Humidity 5-95% (non-condensing)
HARDWARE	<ul style="list-style-type: none"> • 8051 Family Microcontroller • Software Selectable: 11.059MHz or 22.118MHz 	<ul style="list-style-type: none"> • 448K Flash EEPROM • 512K Battery-backed SRAM • Real-Time Clock Option
APPLICATION DEVELOPMENT	<ul style="list-style-type: none"> • Program in "C", Assembly, or 2 Basic 	<ul style="list-style-type: none"> • Development Tools Available
CUSTOM OPTIONS	<ul style="list-style-type: none"> • Keypad and Keypad Graphics • Case Color 	<ul style="list-style-type: none"> • I/O Interface • Logo Tag • E-Stop with 10 ft. Conductor Cable (line-powered units only)
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 	

