



PSMT

Programmable Panel Mount 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
- ✦ NEMA 4/12
- ✦ Three (3) Year Warranty

DIMENSIONS

- ✦ **Height:** 4.9 inches (124 mm)
- ✦ **Width:** 4.9 inches (124 mm)
- ✦ **Depth:** 1.1 inch (28 mm)
- ✦ **Depth with Cover:** 1.3 inches (33 mm)
- ✦ **Weight:** 12 ounces (340 grams)
- ✦ **Case:** Valox® 420

Looking for a fully programmable panel mount terminal? The **PSMT** 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 Programming Interface (API) allows a programmer to access services provided by the Proprietary Operating System (OS). Through the API, a variety of functions from simple display manipulation to high level operations are easily put under direct application control. The PSMT features 448k bytes of Flash EEPROM and 512k bytes of battery backed static RAM. The PSMT is programmable using either "C" or Assembly language on your PC. Interface options including RS-232, RS4-22 or RS-485 are available. With 5 digital I/O lines, the PSMT provides you with the ability to interface to a wide variety of devices.

Selling globally? The PSMT offers 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 PSMT is remarkably rugged. The case is molded from Valox 420, one of the most durable, chemical-resistant materials available on the market today. Proper mounting of the PSMT, with the Two Technologies' mounting kit, assures NEMA 4/12 compliance. Securely framed and clamped into place, the keypad surface provides excellent splash resistance and prevents curling or peeling of the keypad overlay. Keypad layout includes a 20-key configuration and is available with standard or custom graphics.

The PSMT, big value and big power...all in a great little package.





PSMT Specifications

DISPLAY	<p>Standard:</p> <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) 	<p>Options:</p> <ul style="list-style-type: none"> • Supertwist Nematic Display • Supertwist Backlit Nematic Display • Supertwist LED Backlit Nematic Display • Extended Temperature Backlit Nematic Display • Extended Temperature Supertwist Backlit Nematic Display • Vacuum Fluorescent Display • Extended Temperature Vacuum Fluorescent Display
KEYS & SWITCHES	<p>Standard:</p> <ul style="list-style-type: none"> • 20-key (5 x 4) • Membrane or Elastomeric • Feedback: Tactile and Audible 	<p>Options:</p> <ul style="list-style-type: none"> • Backlit Keypad • Phosphorescent (elastomeric only) • Backlit Phosphorescent (elastomeric 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 • VT-100/ANSI 3.64 Compatibility Option • Connector: 6-Pin Female Modular or 6-Pin SIP Header
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 (RS-232, RS-422) (some options require additional current, e. g., backlight adds 50 mA)
ENVIRONMENT	<p>Nematic Displays:</p> <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) 	<p>Vacuum Fluorescent Displays:</p> <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
CERTIFICATIONS	<ul style="list-style-type: none"> • NEMA 4/12- panel mounted (using supplied hardware) • 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 	

