

Symbol PDT 6800 Series



PORTABLE DATA TERMINAL

Portable and Rugged Terminals for Scan-Intensive Applications

The PDT 6800 Series are rugged, lightweight, portable data terminals combining mobile computing and optional wireless communications with comfortable, well-balanced, "forward-scanning" ergonomics. Designed for harsh environments, the PDT 6800 is excellent for industrial markets such as transportation and distribution, yet small enough for scan-intensive applications in retail, such as inventory management and replenishment, price management and receiving.

Building on the legacy of the popular Laser Data and Laser Radio Terminals from Symbol Technologies, this single-handed productivity tool offers a spacious 35- or 46-key alphanumeric keypad, internally mounted radio antenna, and your choice of standard, long-range or high-visibility scanning options. Communications options include both Spectrum24® and Spectrum One® wireless LAN connectivity for real-time high-performance data transfer. Or, choose batch communications with an extended memory option for on site processing and quick uploading/downloading to your PC. Additionally, the PDT 6800 was specifically designed to make full use of existing LRT/LDT cradles and peripherals, providing a total system solution without the added cost of changing the accessories.

Flexible Computing Where You Need It

The PDT 6800 incorporates a convenient and powerful DOS-based industry standard architecture that allows for efficient programming and development of demanding interactive, information-intensive applications. Whether your application calls for inventory counts, shelf price audits, receiving, stock transfers, markdowns or purchasing, the large 16-line backlit display provides greater data content and readability, with plenty of space for graphics. Easily connect a portable printer and you can generate new bar codes for price markdowns or shelf label changes – right on the sales floor!

This tough terminal also has a ruggedized housing to withstand multiple 4ft/1.2 m drops to concrete – across its entire operating temperature range – and is environmentally sealed against severe weather conditions, including dust and rain. Add in Spectrum24 wireless LAN connectivity with a high-visibility scanner and you have a durable decision support tool for real-time data management that reads bar codes accurately in full sunlight outdoors



or in high-intensity, artificial light indoors. The terminal includes a large-capacity battery, making the PDT 6800 Series ideal for increased productivity in warehouses, distribution centers and trucking operations.

Symbol is the worldwide leader in bar code-driven data management systems with thousands of wireless networks installations and millions of scanners and terminals in use. To find out how the PDT 6800 can work for your application, call any of our convenient locations on the back address panel, or visit us at www.symbol.com

Summary of Features

- ▶ Forward-scanning ergonomics
- ▶ Large 16-line backlit, high-visibility display
- ▶ 35- or 46-key alphanumeric keyboard
- ▶ Internal radio antenna
- ▶ Reliable DOS-based industry standard architecture
- ▶ Ruggedized to withstand multiple 4 ft/1.2 m drops to concrete
- ▶ Industrial version is environmentally sealed to IP54 against rain and dust
- ▶ Large-capacity battery
- ▶ Choice of standard, long-range or high-visibility scanning options
- ▶ Choice of Spectrum24 or Spectrum One wireless networks, or batch communications
- ▶ Extended memory options

PDT 6800 Laser Data Terminal Series Specification Highlights

Physical and Environmental Characteristics

Dimensions:	7.0in. H x 3.5in. W x 8.8in. L/178 mm H x 89 mm W x 224 mm L
Weight:	Batch: 24 oz/672 gm with NiCad battery Wireless: 26 oz/728 gm with NiCad battery
Operating Temperature:	Retail Version: -4° to 122°F/(-20° to 50°C) Industrial Version: -13° to 122°F/(-25° to 50°C)
Storage Temperature:	-13° to 140° F/(-25° to 60° C)
Humidity:	95% relative humidity, non-condensing
Drop Spec:	Multiple 4 ft/1.2 m drop to concrete
Environmental Sealing:	Retail Version: MIL-STD-810E/SAEJ1211/Industrial Version: IP54
ESD:	15KV electrostatic discharge to all surfaces without loss of data
Keyboard, Standard:	35 or 46 large, hard, alphanumeric keys
Keyboard, IBM:	46 key, IBM 5250 or 3270 keypads and overlays
Display:	16-line by 21-character FSTN LCD, back light, reverse video, double-high and double-wide characters
Power:	Removable, rechargeable NiCad pack

Computer

CPU:	80C88 type @ 8 MHz
Operating System:	DR-DOS
ROM:	128 KB EPROM (DOS, BIOS, Terminal Diagnostics)
RAM:	640 KB Standard (up to 6.1 MB for batch option)
Non-Volatile Memory:	256 KB Standard (up to 1.2 MB for wireless option)
Application Development:	Symbol Series 3000 Applications Development Kit

Peripherals & Accessories

Cradles:	Single slot and four-slot cradles available
Printers:	Supports extensive line of Symbol-approved printers, cables and accessories
4-Slot Battery Charger:	Recharges multiple batteries
Battery Adapter:	Used with Universal Battery Charger

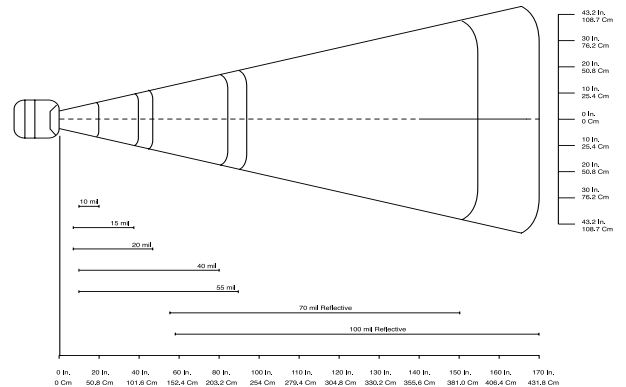
RF Communications	6810	6840
Network:	Spectrum One®	Spectrum24®
Spreading Technique:	Direct sequence	Frequency hopping (1 Mbps) Direct Sequence (11 Mbps)
Data Rate:	60.6 Kbps	1 Mbps or 11 Mbps
Antenna:	Internal	Internal
Range:	Open space: 1500 ft./454 m Typical: 500 ft./151 m	11 Mbps: Open space - up to 1000 ft./303 m Typical: 180 ft. to Radio Channel 250 ft./54.5 to 76 m 2 Mbps: Up to 2,000 ft./606m in open environments and up to 180 to 250 ft./54.5 to 75.7m in a typical office or retail store

Radio Channel Access Method:	CSMA/CA	CSMA/CA
Ethernet Compatibility:	Via Network Control Unit	DIX Ethernet
Output Power:	250 mW	500 mW U.S.; 100 mW international
Frequency Range:	902 to 928 MHz	Country dependent, typically 2.4 to 2.5 GHz

Regulatory

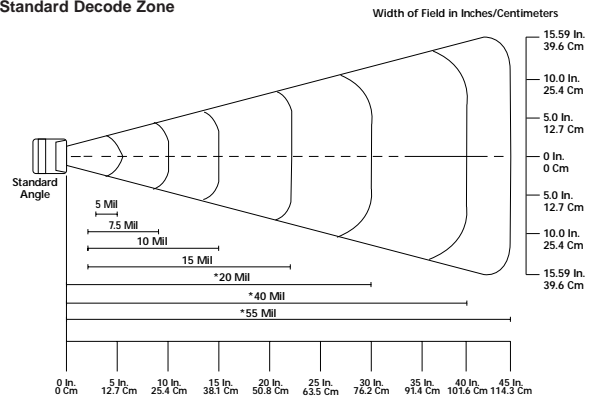
Electrical Safety:	Certified to UL1950, CSA C22.2 No.950, EN60950/EIC950
EMI/RFI:	FCC Part 15 Class A, ICES-003 Class B, European Union EMC Directive, Australian SMA
Hazardous Locations:	Factory Mutual Approved - Class I, Division 2, Groups A, B, C, D; Class II, Division 2, Groups F, G; Class III, Division 1,2 Intrinsically Safe for Class I, Division 1, Groups A, B, C, D;

Long Range Decode Zone



Typical Depth of Field in Inches/Centimeters

Standard Decode Zone



Typical Depth of Field in Inches/Centimeters

*Minimum distance determined by Symbol length and scan angle



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