PD3000 Series

Customer Pole Displays

The Market Leading Pole Display

The PD3000 is widely known as the market leading pole display for PC-based POS systems. It has long set the standard for reliability, value and functionality – reasons why most end users and value-added resellers ask for it and other Logic Controls pole displays by name. One of the reasons why the PD3000 is the leading pole display is its well deserved reputation as the most reliable offering on the market. The PD3000 uses special display technology and unique circuit design to achieve this reliability.

Supports Almost Any Command Set Or Language

The PD3800 universal pole display provides support for almost any command set or language. The unit supports the Logic Controls command set and OPOS and JPOS drivers, but it can also be programmed to support command sets from Epson, Partner Tech, Ultimate Technologies, IEE, EMAX, Aedex, or Noritake. In addition, updated or new command sets can be downloaded into the display at any time after purchase. Many different languages are also supported - from common languages like English, Spanish, German, and French to less common languages like Norwegian and Slavonic. Importantly, these command sets and languages are selected through a software interface. The use of dip switches or other hardware-based selection mechanisms, which inherently decrease the reliability of the hardware but are still used by our competitors, is avoided.

Advanced Functionality and Value

The PD3000 comes with much functionality that simply is not found in other vendors' pole displays. "Smart scrolling," user-definable characters, and a built-in real-time clock are all standard features of the unit's firmware. The PD3000 is also more visible than its competitors due to a special scratch-resistant lens that has a color optically matched to the light emitted from the vacuum fluorescent display. Like all Logic Controls customer display models, the PD3000 also provides comprehensive and innovative support of different interfaces. Logic Controls was the first to offer port-powered customer displays that use a standard USB port. Models with serial, USB, USB port-powered, parallel and serial or parallel pass-thru interfaces are available.

- Two-line display with twenty 5mm high characters each line
- Proven reliability
- Bright green vacuum fluorescent display
- Better visibility due to optically matched anti-scratch lens and wider character pitch
- Downloadable command sets and fonts for emulating current and future pole displays
- Wide choice of interfaces: USB port-powered, USB, serial, parallel and pass-thru
- Supports OPOS and JPOS drivers and many command sets including Logic Controls, Epson, Partner Tech, Ultimate Technologies, IEE, EMAX, Aedex, or Noritake
- Universal PD3800 models support a wide variety of languages including English, Spanish, German, French, and Italian
- Automatic message scrolling and "smart scrolling"
- Easily programmable for custom messages
- User-definable characters and built-in real-time clock
- Adjustable viewing angles
- Available in beige and black colors, 120VAC and 220VAC

LOGIC® CONTROLS

An Innovative Manufacturer Since 1982

PD3000 Series Customer Displays Specifications

OPTICAL (FLUORESCENT DISPLAY)

Digits per Row	20
Number of Rows	2
Digit Configuration	5 x 7 Dot Matrix
Digit Height	0.20 in. (5.0mm)
Digit Width	0.14 in. (3.5mm)
Digit Pitch	0.20 in. (5.0mm)
Character Configuration	ASCII
Brightness	200 fl (690 cd/m2) max
Display Color	Green
MTBF	300,000 hours

ELECTRICAL

Input Power (to adapter)	120VAC, 60Hz 220VAC, 60Hz (optional)
Output Power (from adapter)	7.5VAC, 1A
Connector	2 Conductor female jack
Pole Connector	6-pin DIN (male) / 8-pin mini-DIN (male)
Interface Cable	
Pole side connector	6-pin DIN (female) / 8-pin mini-DIN (female)
Computer side connector	DB9 (female); Optional DB25 (female)
Power connector	2 Conductor male jack

ENVIRONMENTAL

Operating Temperature	0 to +50C
Storage Temperature	-20 to +70C
Relative Humidity	
Operating	85% max. non-condensing
Non-operating	90% max. non-condensing
Vibration (10 to 55Hz.)	4 G's
Shock	40 G's

INTERFACE

Serial	RS232C
Protocol: (user programmable)	
Baud Rate	2400, 4800, 9600*, 19,200
Data Bit	8
Parity	None
Stop Bits	1*

*Default preset at factory

RTS/CTS control lines are tied together in the connector.
DSR/DCD/DTR control lines are tied together in the connector.

Parallel	Optional Interface
Pass-Thru	Optional serial or parallel
USB	Optional Interface
USB - port powered	Optional Interface

GENERAL INFORMATION

Power adaptor and interface cable are supplied with product.

POLE DISPLAY EMULATION

The PD3800 universal pole displays are very versatile. They are user downloadable to emulate many other pole display command sets and support OPOS / JPOS.

CERTIFICATION

FCC Class B
CE

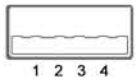
MECHANICAL

Weight	2.7 lbs
Dimensions (inches)	(width x height x depth)
Fluorescent Display	7.87 x 3.37 x 1.75
Rectangular Base	2.12 x 2.00 x 2.25
Base Plate	4.00 x 0.90 x 8.00
Overall Height	8 to 25 inches

CONNECTOR PINOUT

USB

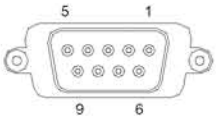
1	V+
2	D-
3	D+
4	Ground



SERIAL

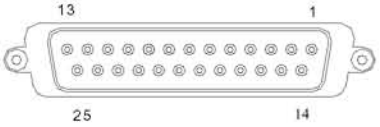
DB9 female connector

Pin #	Function
1	DCD
3	Data
4	DTR
5	Ground
6	DSR
7	RTS
8	CTS



DB25 female connector

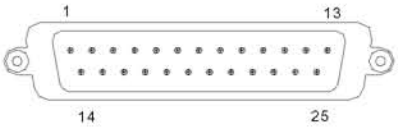
Pin #	Function
2	Data
7	Ground
4	RTS
5	CTS
6	DSR
8	DCD
20	DTR



PARALLEL

DB25 male connector

Pin #	Function	Pin #	Function
1	-Strobe	10	-ACK
2	Data 0	11	Busy
3	Data 1	12	Paper End
4	Data 2	13	Select
5	Data 3	14	-Auto Feed
6	Data 4	15	-Error
7	Data 5	16	-Initialize Printer
8	Data 6	17	-Select Input
9	Data 7	18 - 25	Ground



ORDER INFORMATION

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COMMAND SET
0 = Logic Controls
1 = Logic Controls (with Pass - Thru)
2 = Special command set 1 (Aedex)
3 = Special command set 2 (Noritaki)
4 = Special command set 3 (Epson)
5 = Special command set 4 (UTC)
8 = Universal Display (command set downloadable)
9 = OPOS

USB Interface
Power Adaptor
0 = 120VAC
1 = 220VAC

Serial / Parallel Interface
0 = serial
9 = Parallel

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www.logiccontrols.com
LOGIC CONTROLS, INC., NY, USA