PD45

Industrial Label Printer

The PD45 is Honeywell's new commercial grade industrial printer, which is suited for manufacturing, retail, transportation and logistics, health care, and government applications. The PD45 is available with standard features such as smart printing capability, in which users can configure and fine-tune settings without the need for a host computer by running apps right inside the printer – minimizing the need to connect to a PC. With Honeywell print platform that supports multiple print languages, PD45 can be an effective alternative to the competing printers available in the market.



Uniquely designed using minimum internal mechanical parts and an all-metallic frame structure, PD45 is sturdy and durable. This gives our printer a tough, compact, and sleek appearance, suitable for use in a wide range of settings and applications. A large glass window design allows users to easily monitor the status of the printer and its consumables. A side opening makes it convenient for ribbon and paper loading.

The PD45 runs on Arm Cortex-A7 / 800Mhz processor, 128M memory and 128M DDR3 SDRAM. It features a sophisticated industrial print head which supports both direct thermal and thermal transfer printing modes. Honeywell's patented dual sensor positioning technology supports a dynamic positioning function that ensures a minimum label height of 5mm and vertical position accuracy of 0.75mm. Two sets of adjustable pressure bars and a double media guides ensures accurate paper feeding and help to avoid ribbon wrinkles and printing dirt.

Thanks to a very ergonomic design, the print head can be easily switched out and replaced. The front sensor that ensures accurate printing can also be easily removed to facilitate cleaning and replacement of the rubber roller. The PD45 supports multiple printer command languages such as FP/DP/IPL/ZPL/DPL, one-key installation of printer driver and easy windows configuration.

FEATURES AND BENEFITS

Rugged and Durable
Suitable for a large variety of working environments with all-metal frame structure.

Excellent performance
Advanced industrial print head ensures high printing quality and durable.

Patented Dual-sensor Positioning Technology
Ensuring the minimum width of 5mm and the position accuracy of ±0.75mm with the dynamic positioning function.

Easy to operate
Supporting one-key driver installation and facilitating printer cleaning and parts replacement.

Complete after-sales services
Honeywell Global Service Support can provide customers and partners with the best support and visiting service in the industry. Honeywell's services can improve the production efficiency, equipment reliability and uptime indicators.

Honeywell

PD45 Technical Specifications

GENERAL SPECIFICATION

Product models:

PD4500C: 2.36" keyed LCD

PD4500B: LED, Feed button

Printing modes:

Direct thermal and thermal transfer Printing

Processors:

Arm Cortex®-A7, 800MHz

128 MB flash memory

256 MB DDR3 SDRAM

Multi-GB USB storage device (FAT16/FAT32) Built-in real-time clock

PRINT SPECIFICATIONS

Printing resolution:

203 dpi: 8 dots/mm

300 dpi: 11.8 dots/mm

Printing speed:

203 dpi: 50 - 200mm/s (2-8ips)

300 dpi: 50 - 100mm/s (2-4ips)

Maximum width:

203 dpi: 108 mm (4.25 inches)

300 dpi: 105.7 mm (4.16 inches)

Maximum Continuous Print Length:

203 dpi: 4.8 m (15.75 ft)

300 dpi: 2.2 m (7.22 ft)

MECHANICAL

PD4500C/PD4500B

Dimensions (L x H x W):

L: 438 mm x 270 mm x 249 mm (17.24 in x 10.63 in x 9.80 in)

Weight: 9.25Kg (20.39lbs)

OPTIONS AND ACCESSORIES

- Wireless network interface card (PD4500C only)
- Cutter (PD4500C only)

RIBBON SPECIFICATIONS

Ribbon supporting:

Inner carbon or outer carbon

Maximum roll diameter:

80 mm (3.15 inches), about 450 m (1,476 feet)

Roll core ID: 25.4 mm (1 inch)

Max. /Min. Width (ribbon and roll core):

110/51 mm (4.33/2.0 inches)

Type:

Wax base, mixed base and resin base

Honeywell's genuine media:

sps.honeywell.com/us/en/products/productivity/printer-supplies

MEDIA SPECIFICATIONS

Non-continuous label paper, black label paper, tag paper, guide hole paper, notch paper or continuous label paper

Maximum/minimum width (label and liner): 114/20 mm (4.5/0.79 in)

Minimum label length:

Paper tearing mode: 5.0 mm (0.197 inches)

Cutter Mode: 38.0mm (1.5 inches)

Thickness (label and liner):

3 mil to 8.82 mil (0.076mm to 0.224mm)

Configuration:

External roll paper or folding paper

Maximum diameter of label roll:

203.2 mm (8.0 inches)

Label roll core:

76 mm (3.0 inches)/25.4mm (1.0 inches)

PRINT INTERFACES

Standard:

- USB 2.0 host interface
- USB 2.0 device interface
- Ethernet interface, transmission rate: 10/100 Mbps (PD4500C only)
- RS-232, transmission rate up to 115.2 KB/s (PD4500C only)

It supports the following serial port protocols:

- Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, RTS/CTS
- IPL: XON/XOFF, Honeywell Std. Protocol

Optional:

- WIFI(PD4500C only): IEEE 802.11 a/b/g/n/ac, WFA certified, Static WEP (64 bit and 128 bit), Dynamic WEP (TLS, TTLS, PEAP, LEAP, EAP-FAST), WPA (THIP/CCKM Personal and Enterprise, WPA2 (AES-CCMP/CCKM Personal and Enterprise)
- Dual serial ports(PD4500C only): RS-232, RS-422 and RS-485, and 20 mA current loop, GPIO card

OPERATING ENVIRONMENT

Operating temperature:

+5°C to +40°C (+41°F to +104°F)

Storage temperature:

-20°C to +70°C (-4°F to +158°F)

Humidity:

20% to 85%, non-condensing

APPROVALS

CB \ CE; for more compliance information, please contact your local sales representative.

BARCODES/FONTS/GRAPHICS

Barcodes:

Supporting all main 1D and 2D symbols

Supporting standards:

UPC/EAN Shipping Container, UCC/EAN 128, Serial Shipping Container, MH10.8 Shipping Label, AIAG (shipping parts label, OGMARS, POSTNET, HIBCC, ISBT 128, GM1724, UPS Shipping Label and Global Transport Label

Font:

Monotype font engine; non-Latin fonts can be supported through WTLE, and customers can also download (Truetype) fonts by themselves.

Graphics:

It supports PCX, PNG, GIF and BMP file formats. Other formats can be supported by Label Generation Tools.

SOFTWARE

Printer command languages:

Fingerprint (FP), Direct Protocol (DP), IPL, ZSim2 (ZPL-II), DPL; XML can be enabled for SAP AII and Oracle WMS;

Application programs /Driver programs:

InterDriver Windows printer drive and one-key installation driver, CUPS driver for Linux, program packages for Honeywell device type for SAP and Honeywell label design and printing

SMART PRINTING languages:

Honeywell's special C# languages for printers: Smart Printing Developer Resource Kit; write application in the development environment compatible with .NET.

Configuration and equipment management support:

Printset supports Windows to configure printers; the mature Web interface is used for configuration and one-to-one management

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USER INTERFACE LANGUAGES

Color CNC LCD and WEB interface:

English, Italian, French, Spanish, Portuguese, German, Russian, Traditional Chinese, Simplified Chinese, Korean, Japanese and Thai

POWER SUPPLY

PFC power supply with the rated power of 100W AC voltage: 100V AC to 240V AC, 50Hz to 60Hz

For more information

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