PM45 AND PM65

Industrial Printers

The PM45 and PM65 series industrial printers are designed for high quality label printing in harsh industrial environments. The WWAN connective printer enables 24/7 data communication and real-time visibility of critical data from a wide range of locations.



The PM45 and PM65 printers are built for smart label solutions that help enterprises enhance automation and intelligence in manufacturing and supply chain management for high operating efficiency.

Enterprises today are facing increasing production flexibility, inventory turnover, and cost control challenges. The PM45 and PM65 industrial printers offer high-precision and high-volume printing along with remote configuration and diagnostics functionalities that increase production efficiency and supply chain transparency in food and beverage, pharmaceuticals, manufacturing, warehouse, and distribution center management.

Efficiency and reliability of printing operations are essential for successful workflows. Printer Edge™ provides centralized management and real-time monitoring of your printer network and may help reduce printer downtime and improve the speed and accuracy of printer operations. With effortless integration, a user-friendly interface, enhanced security, and a single software toolkit, you can keep your operations running smoothly while helping reduce costs and maximize productivity.

The PM45 and PM65 support printer remote control, so you can see and control the printers from a remote computer and provide real-time diagnosis and technical support. Print Set MC application enables you to quickly connect and configure the printers from your preferred Android™ or iOS device, and optional Operational Intelligence enables the printers with the capability of remote management for issues diagnostics and output performance tracking.

The PM45 printer can deliver print registration of up to +/-0.5 mm, ensuring high print quality of barcodes, texts, and images, even on small electronic component and pharmaceutical labels. The PM45 and PM65 include WWAN connectivity to enable deployment with minimal limitation from site network topology. These printers are also scalable to incorporate RFID, parallel, industrial, and applicator interfaces to address your unpredictable business needs in the future.

The PM45 and PM65 can support a wide range of media – including ink-in and ink-out ribbons with one-inch core size – enhancing the time between media resupply. The PM45 and PM65 printers are easy replacements for existing or mixed printers. Rugged, all-metal print mechanism, easy printhead, and tool-free platen roller replacement, help minimize downtime and maintenance needs.

FEATURES AND BENEFITS

Printer Edge is a smart, connected printer platform with easy setup, quality output, enhanced security, and the simplicity of a single software toolkit for your printer network.

The PM45 and PM65 printers offer a scalable and upgradable solution to minimize the business constraints that may be faced in the future.

Optional Operational Intelligence provides actionable insights into critical areas such as mobility devices, printer usage, and network connectivity. These insights can be turned into automated workflows that optimize workflow processes for greater productivity.

WWAN connectivity designed for M2M and IoT applications.

Smart printing capability allows users to configure and print without the need for a host computer.

BRADY

PM45/PM65 Technical Specifications

MECHANICAL

PM45:

483 mm L x 295 mm H x 284 mm W (19.0 in x 11.6 in x 11.2 in)

Weight: 12.1 kg (26.7 lbs)

PM45c:

432 mm L x 181 mm H x 253 mm W (17.0 in x 7.1 in x 10.0 in)

Weight: 11.5 kg (25.4 lbs)

PM45c with mega door:

500 mm L x 245 mm H x 253 mm W (19.7 in x 9.6 in x 10.0 in)

Weight: 11.7 kg (25.8 lbs)

PM65:

484 mm L x 292 mm H x 350 mm W (19.1 in x 11.5 in x 13.8 in)

Weight: 13.7 kg (30.2 lbs)

PRINT SPECIFICATIONS

Max. Width

PM45:

At 203 dpi: 108 mm (4.25 in)

At 300 dpi: 105.7 mm (4.17 in)

At 406 dpi: 104 mm (4.09 in)

At 600 dpi: 105.6 mm (4.16 in)

PM65:

At 203/300 dpi: 167.4 mm (6.59 in)

Max Length

PM45:

At 203 dpi: 4.8 m (189 in)

At 300 dpi: 2.2m (85 in)

At 406 dpi: 1.2 m (47.2 in)

At 600 dpi: 0.55 m (22 in)

PM65:

At 203 dpi: 4.8 m (189 in)

At 300 dpi: 2.2 m (85 in)

WIRELESS CONNECTIVITY

PM45 &PM65:

WLAN: IEEE 802.11 a/b/g/n/ac/ax; Wi-Fi Alliance certified, 1x1 SISO

Additional WLAN Features: 802.11d/e/h/i/k/r

Security: OPEN, WEP, WPA/WPA2/WPA3 (Personal and Enterprise)

Supported EAP: dynamic, EAP PEAP, EAP TTLS, LEAP, EAP FAST, EAP TLS 1.2

Bluetooth: V5.1 Bluetooth

WWAN: WWAN Radio

CAT4 LTE Modem

MIMO - Main/Rx-diversity

LTE FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B25/B26/B28

LTE TDD: B38/B39/B40/B41

UMTS: B1/B2/B4/B5/B6/B8/B19

GSM: B2/B3/B5/B8

Slot: Micro Sim Card slot x 1

PRINT SPEED

PM45:

At 203 dpi: 50 mm to 350 mm/s (2 ips to 14 ips)

At 300 dpi: 50 mm to 300 mm/s (2 ips to 12 ips)

At 406 dpi: 50 mm to 250 mm/s (2 ips to 10 ips)

At 600 dpi: 50 to 150 mm/s (2 ips to 6 ips)

PM65:

At 203 dpi: 50 mm to 300 mm/s (2 ips to 12 ips)

At 300 dpi: 50 mm to 250 mm/s (2 ips to 10 ips)

PRINT RESOLUTION

PM45:

At 203 dpi: 8 dots/mm

At 300 dpi: 11.8 dots/mm

At 406 dpi: 16 dots/mm

At 600 dpi: 23.6 dots/mm

PM65:

At 203 dpi: 8 dots/mm

At 300 dpi: 11.8 dots/mm

MEDIA SPECIFICATION

Type: Labels and tags and linered media

Max./Min.Width

PM45: 114 mm/19 mm (4.5 in/0.75 in)

PM65: 178 mm/51 mm (7 in/2 in)

Thickness

PM45: 2.4 mil to 10.4 mil

PM65: 3 mil to 10.4 mil

Minimum Media Length

6.4mm(0.25in) for tear off and rewinder mode

RFID – 25.4 mm (1 in)

Configuration: Roll-fed or fan-fold

Media Sensing: Gap, notch, black mark, continous, media low, (rotary hanger option), media end

Other sensing: Label taken sensing, ribbon low/end sensing, head lift sensing

Label Roll Max.Diameter

PM45c with long door: 152 mm (6 in)

PM45 other and PM65: 213 mm (8.38 in)

Label Roll Core ID: 38 mm to 76 mm (1.5 in to 3 in)

RIBBON SPECIFICATION:

Type: Wax base, mixed base and resin base

Ribbon Roll Max. Diameter

PM45 and PM65: 80 mm (3.15 in), capacity of 450 m (1,476 ft)

PM45c: 61 mm (2.4 in), capacity of 229 m (751 ft)

Ribbon Core ID: 25.4 mm (1 in)

Max./Min. Width

PM45: 21.6 mm/110 mm (0.85 in/4.33 in)

PM65: 50.8 mm/172.7 mm (2 in/6.8 in)

INTERFACES

Standard:

Ethernet 10/100 Mbps

USB 2.0 Host

USB 2.0 Device

RS-232, up to 115.2 KB/s

Optional:

Parallel Interface (IEEE 1284)

Wireless Connectivity WLAN Industrial interface – eight digital in/out, four analog relays, one RS232/422/485 port

Applicator Interface – Ext Error 8-pin mini-DIN, Z-style standard DB15 port, S-style standard 14-pin Centronics, Ext Power 6-pin mini-DIN

RFID – Supports UHF EPC Gen 2 V2.1, ISO/IEC 18000-63 and RAIN RFID protocols. Radio configured to comply with local UHF RFID regulations including FCC and ETSI. Contact local representative for availability in particular region.

Supported Network Protocols:

TCP/IP suite (TCP, UDP, ICMP, IGMP), LPR/LPD, Telnet/SSH, FTP/SFTP, BOOTP, DHCP, HTTP/HTTPS, SNMPv1/2c/3, SNMP-MIBII supported – over UDP/IP (private enterprise MIB included), SMTP Supports IPv4 and IPv6

SOFTWARE

Printer Command Languages:

Fingerprint (FP)

Direct Protocol (DP)

Intermec Printer Language (IPL)[3]

ZSim2 (ZPL-II), DPL, XML-enabled for SAP® AII and Oracle® WMS, PDF, C#

Applications/Drivers:

InterDriver Windows® printer driver, CUPS driver for Linux, Device Types for SAP, label design and print package

Smart Printing Languages:

C# for Printers: Smart Printing Developer Resource Kit; write apps with .NET-compatible development environments

Configuration and Device Management Support

Standard:

PrintSet 5 for printer configuration; sophisticated web interface for configuration, upgrades and 1:1 management; Print Set MC (Android and Apple iOS) for printer configuration

Optional:

Operational Intelligence

PM45/PM65 Technical Specifications

BARCODES/FONTS/GRAPHICS

Barcode Symbologies: All major 1D and 2D symbologies are supported

Standards Supported: 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, Global Transport Label

FONTS

Monotype font engine

Non-Latin fonts available through WTLE

GRAPHICS

Supports PCX, PNG, GIF and BMP file formats.

Other formats supported with Label Generation Tools.

MEMORY

Standard: 512 MB Flash memory, 256 MB SDRAM, Multi-GB USB memory device (FAT16/FAT22)

User Partitioning: 256MB

USER INTERFACE

Full Touch UI, Icon UI

USER INTERFACE LANGUAGES

On Full Touch LCD and Web Interface:

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

POWER SUPPLY

AC Voltage: 100V AC to 240V AC, 50 Hz to 60 Hz

Power Consumption: Standby 9.6W; Peak 270W (24V), Peak 145W (33V)

ENVIRONMENTAL

Operating Temperature:

- **Thermal Transfer**: 5ºC~40ºC (40º F to 104º F);
- **Direct Thermal:** 0° to 40°C (32º F to 104º F)

Storage Temperature:

-20°C to 70°C (-4°F to 152°F)

Operating Humidity:

20 % to 85 % non-condensing

Storage Humidity:

5 % to 90 % non-condensing

REGULATORY APPROVALS

RoHS Compliant, CE (EN55032 Class B), FCC Class B, Energy Star 3.0 Qualified

For more countries compliant, please contact your local sales office.

OPTIONS AND ACCESSORIES

Consult the PM Series Accessory Guide for full details:

Integral self-strip unit with liner takeup, label taken sensor (LTS), media low sensor, media supply hub, parallel interface board Wi-Fi 6, RFID UHF, applicator interface board, industrial interface board[1], collapsible rewinder core, cutter, full batch label/liner rewinder

[1] Not applicable when using IPL firmware.

For a complete listing of all compliance approvals and certifications, please visit www.honeywellaidc.com/compliance.

For a complete listing of all supported barcode symbologies, please visit www.honeywellaidc.com/symbologies.

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