

PM45 / PM45c

Industrial Printers

The Honeywell PM45 series industrial printer is 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.



Enterprises today are facing increasing challenges on production flexibility, inventory turnover, and cost control. The PM45 industrial printer offers high-precision and high-volume printing along with track-and-trace functionality to increase production efficiency and supply chain transparency in food and beverage, pharmaceuticals, manufacturing, warehouse, and distribution center management.

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

Built on the Honeywell print platform, the durable PM45 printer offers print speeds of up to 14 ips. With print registration of up to +/-0.5 mm, the PM45 printer can ensure high print quality of barcodes, texts, and images, even on small electronic component and pharmaceutical labels. As a highly connected industrial printer, the PM45 is packed with first-in-class WWAN connectivity to enable deployment with minimal limitation from site network topology. The PM45 printer is also scalable to incorporate RFID, parallel, industrial, and applicator interfaces to address your unpredictable business needs in the future.

To support your transformation to intelligent manufacturing and supply chain management, the PM45 printer supports variable network protocols and multiple print languages to enable easy integration into your system whether it's on a local server or the cloud. With the embedded Honeywell software tool Smart Parse, you can quickly change the position, size of objects and barcode, or font type on labels without the need to change the backend system or having any programming skills. Honeywell Operational Intelligence equipped the PM45 printer with the capability of remote management for issues diagnostics and output performance tracking.

The PM45 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. With Honeywell's firmware platform that supports multiple print languages, the PM45 printer is an easy replacement for existing Honeywell or mixed printers. A rugged, all-metal print mechanism, easy printhead, and tool-free platen roller replacement, help minimize downtime and maintenance needs.

FEATURES AND BENEFITS



The common software platform managed by Honeywell Cyber Security provides security updates throughout the entire lifecycle.



The PM45 printer offers a scalable and upgradable solution to minimize the business constraints that may be faced in the future.



The PM45 printer is the first industrial printer with WWAN connectivity designed for M2M and IoT applications.



Operational Intelligence MDM tool provides predictive analytics and data on printer health, while SOTI and PrintSet MC are also supported.



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

PM45/PM45c Technical Specifications

PHYSICAL CHARACTERISTICS

PM45:

L x H x W: 483 mm x 295mm x 284 mm
(19.0 in x 11.11.6 in x 11.2 in)

Weight: 13.2 kg (29.1lbs)

PM45c:

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

Weight: 12.6 kg (27.7 lbs)

PM45c with Mega Door

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

Weight: 12.8 kg (28.0 lbs)

PM45/45C PRINT SPECIFICATIONS

Max.Width at 203 dpi: 108 mm (4.25 in)

Max.Width at 300 dpi: 105.7 mm (4.17 in)

Max.Width at 406 dpi: 104 (4.09 in)

Max.Width at 600 dpi: 105.6 mm (4.16 in)

Max.length at 203 dpi: 4.8 m (189 in)

Max.length at 300 dpi: 2.2m (85in)

Max.length at 406 dpi: 1.2 m (47.2 in)

Max.length at 600 dpi: 0.55m (22in)

WIRELESS CONNECTIVITY

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

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

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

Supported EAP: TLS, PEAP, TTLS, PWD,
LEAP, FAST

Bluetooth: V5.0 Bluetooth and BLE
Supported

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

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

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

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

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

PRINT RESOLUTION

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

PM 45/45C MEDIA SPECIFICATION

Type: Labels and Tags and Lined media

Max./Min.Width: 114/19 mm (4.5/0.75 in)

Thickness: 3 mil to 10.4 mil

Configuration: Roll-fed or fan-fold

Media Sensing: Gap, Notch, Black mark,
Continuous, Media low, Media end

Other sensing: Label Taken sensing,
Ribbon Low/End sensing, Head lift sensing

Label Roll Max.Diameter: 152 mm (6 in) for
PM45c long door models; 213 mm (8.38 in)
for all other models of PM45/PM45c

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

RIBBON SPECIFICATION:

Type: Wax, mid-range and resin **PM45:**

PM45 Roll Max. Diameter: 80 mm
(3.15 in), capacity of 450 m (1,476 ft)

PM45c:

PM45c Roll Max. Diameter: 61 mm
(2.40 in), capacity of 229 m (751 ft)

Media:

Ribbon Core ID: 25mm (1 in)

INTERFACES

Standard:

Ethernet 10/100/1000 Mbps

USB 2.0 Host (x2 PM45, x1 PM45C)

USB 2.0 Device

RS-232, up to 115.2 KB/s

Optional:

Parallel Interface (IEEE 1284)

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 EPC Class 1 Gen2, 18000-6C. 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® All and Oracle® WMS, PDF, C#

Applications/Drivers:

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

Smart Printing Languages:

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

Configuration and Device Management Support (optional):

OpIntel -

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 via Bluetooth LE only

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

PM45/PM45c Technical Specifications

POWER SUPPLY

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

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

OPERATING ENVIRONMENT

Ambient Operating Temperature:

+5°C to +40°C (+41°F to +104°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, RFID UHF, applicator interface board², industrial interface board^{1,2}, collapsible rewinder core, cutter, full batch label/liner rewinder²

¹ Not applicable when using IPL firmware.

² Compatible with PM45 only.

³ Supports on 203 dpi and 300 dpi only.

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1 (888) 238-1155 Inside USA • 1 (205) 383-2244 Outside USA
info@atlasRFIDstore.com • www.atlasRFIDstore.com

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 atlasRFIDstore.com