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.

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.

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.

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.

Honeywell

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 Linered media
Max./Min.Width: 114/19 mm (4.5/0.75 in)
Configuration: Roll-fed or fan-fold
Media Sensing: Gap, Notch, Black mark, Continous, 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:
Max./Min.Ribbon Length: 57/32.4mm (2.24/1.28 in)
PM45c:
Max./Min.Ribbon Length: 51/32.4mm (2.0/1.28 in)
Genuine Honeywell Media:
https://sps.honeywell.com/us/en/products/productivity/printer-supplies

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® AII 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, GIFand 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

POWER SUPPLY

AC Voltage: 100 to 240V AC, 50 to 60 Hz
Power Consumption: Standby 9.6W; Peak 270W (24V), Peak 145W (33V)

PM45/PM45c Technical Specifications

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 board[2], industrial interface board[1,2], collapsible rewinder core, cutter, full batch label/liner rewinder[2]

[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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