

## PM43/PM43c/PM23c

### Mid-Range Industrial Printers

The PM43 and even more compact PM43c Mid-Range Industrial Printers deliver fast print speeds, drop-in deployment, advanced connectivity and proven reliability. Built to deliver maximum uptime, PM series printers are available with either a tamper-proof color touchscreen in 10 languages, or a universal icon interface. This enables immediate notifications through the printer interface, reducing your workforce training and device support needs.

As one of the most "connected" industrial printers on the market, the PM series feature Wi-Fi and Cisco® CCX certifications, with additional Bluetooth® connectivity. Every printer ships with Ethernet connectivity, as well as network protocol IPv6, ensuring long-term enterprise scalability.

As a third-generation industrial printer platform, rugged PM series printers incorporate features that increase uptime and reduce maintenance costs. A strong, metal construction is perfect for harsh industrial environments. And with Precision Print, even the smallest barcodes and images can be printed with pinpoint accuracy – no frequent media adjustments necessary.

Each PM43, PM43c and PM23c printer has an integrated web interface that allows for easy setup, monitoring and configuration through devices like handheld computers, tablets or smartphones. Integrated device management and diagnostic capabilities, provided through the Honeywell SmartSystems™ Foundation and Wavelink Avalanche®, reduce downtime and simplify deployment.

With very fast print speeds up to 12 ips, you'll gain a clear productivity advantage. But performance isn't about just



***Considering the switch to Honeywell printers? With comprehensive command language support, including enhanced ZSim2 emulation, upgrading to PM series has never been simpler.***

speed; it's also about working smarter. The PM series printers are intelligent, helping you to reduce labeling errors and increase process efficiencies. In-printer apps, developed with Honeywell C# for Printers, can directly control other devices such as scanners, scales, keyboards and other peripherals – without the need for an attached computer.

With their user-selectable, all-in-one programming languages, PM series printers fit into most IT infrastructures, deploying quickly into existing Honeywell or mixed printer environments. And with comprehensive command language support – including ZSim2, our fast, friendly and complete ZPL-II emulation – upgrading to PM series has never been simpler.

The PM series printers are co-engineered and tested with Honeywell Media Products, ensuring optimized printhead performance when used with genuine Honeywell media.

## FEATURES & BENEFITS



Large color multilingual tamper-proof touchscreen or icon user interface.



Ready for the future, with IPv6 support, plus CCX and Wi-Fi certifications.



Comprehensive printer command language support, including ZSim2, makes upgrading easy.



Fast printing speed of up to 12 inches per second.



Run sophisticated apps right in the printer with industry-leading Honeywell Smart Printing supporting C#.

# PM43/PM43c/PM23c TECHNICAL SPECIFICATIONS

## DESCRIPTION

Industrial mid-range, direct thermal and thermal transfer label, ticket and tag printer. Also available with RFID.

## PHYSICAL CHARACTERISTICS

**PM43:** LxHxW: 483 x 295 x 284 mm (19.0 x 11.6 x 11.2 in); Weight: 15.82 kg (34.88 lbs)

**PM43c:** LxHxW: 431 x 181 x 253 mm (17.0 x 7.1 x 9.9 in); Weight: 12.5 kg (27.65 lbs)

### PM43c with Dome Door:

LxHxW: 500 x 245 x 253 mm (19.6 x 9.6 x 9.9 in); Weight: 12.71 kg (28.02 lbs)

**PM23c:** LxHxW: 431.84 x 181 x 205.5 mm (17 x 7.13 x 8.09 in)

**PM23c with Dome Door:** LxHxW: 500.22 x 244.87 x 205.5 mm (19.69 x 9.64 x 8.09 in)

**PM23c with Bag Tag Door:** LxHxW: 431.84 x 207 x 205.5 mm (17 x 8.15 x 8.09 in); Weight: 9.5 kg (21 lbs)

## PM43/43C PRINT SPECIFICATIONS

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

**Max. Width at 300 dpi:** 106 mm (4.17 in)

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

**Max. Length at 203 dpi:** 4.8 m (15.75 ft)

**Max. Length at 406 dpi:** 1.2 m (3.94 ft)

## PM23C PRINT SPECIFICATIONS

**Max. Width at 203 dpi:** 56 mm (2.2 in)

**Max. Width at 300 dpi:** 56 mm (2.2 in)

**Max. Width at 406 dpi:** 64 mm (2.5 in)

## RFID STANDARDS & FREQUENCIES

18000-6C / EPC Class 1 Generation 2  
865–928 MHz radio configured to comply with local UHF RFID regulations including FCC and ETSI. Contact local representative for availability in particular regions.

## PRINT SPEED

**At 203/300 dpi:** 100–300 mm/s (4–12 ips)

**At 406 dpi:** 100–250 mm/s (4–10 ips)

## PRINT RESOLUTION

**At 203 dpi:** 8 dots/mm

**At 300 dpi:** 11.8 dots/mm

**At 406 dpi:** 16 dots/mm

## MEDIA

**Type:** Labels and Tags, Linerless and Lined media

**PM43/43c Max/Min Width:** 114/19 mm (4.5/0.75 in)

**Thickness:** 3 to 10.4 mil

**PM23c Max/Min Width:** 68/19 mm (2.7/0.75 in)

**Configuration:** Roll-fed or fanfold

**Sensing:** Gap, notch, black mark, continuous

**Label Roll Max. Diameter:** 152 mm (6 in) for long door models; 213 mm (8.38 in) for all other models  
**Label Roll Core:** 38–76 mm (1.5–3 in)

**Type:** Ribbons

## PM43 Roll Max. Diameter:

80 mm (3.15 in), approx. 450 m

## PM23/43c Roll Max. Diameter:

61 mm (2.40 in), 229 m

**Core ID:** 25 mm (1 in)

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

**Genuine Honeywell Media:**

[www.honeywellaidc.com/media](http://www.honeywellaidc.com/media)

## INTERFACES

### Standard:

- Ethernet 10/100 Mbps
- RS-232, up to 115.2 KB/s
- Supported Serial Protocols:
  - Fingerprint/Direct Protocol: XON/XOFF, ENQ/ACK, DSR/DTR, RTS/CTS
  - IPL: XON/XOFF, Honeywell Std. Protocol

• USB 2.0

• USB Host (X1 on PM23c/PM43c, X2 on PM43)

### Optional:

- Parallel IEEE 1284
- Industrial Interface (8 digital in/out, 4 analog relays, 1 RS232/422/485 port)
- Dual Serial ports RS-232, RS-422, RS-485 and 20mA Current Loop
- Dual USB Host

### Wireless:

- IEEE 802.11 a/b/g/n + Bluetooth
  - Wi-Fi Certified, CCX (Cisco) version 4 Certified
  - Static WEP (64 bit and 128 bit), Dynamic WEP (TLS, TTLS, PEAP, LEAP, EAP-FAST), WPA (TKIP/CKKM Personal and Enterprise), WPA2 (AES-CCMP/CKKM Personal and Enterprise)
  - Multiple industrial antenna options for maximized coverage
- Supported Protocols:**
- TCP/IP suite (TCP, UDP, ICMP, IGMP), LPR/LPD, FTP, BOOTP, DHCP, HTTP, SNMPv1/2c/3, SNMP-MIBII supported – over UDP/IP (private enterprise MIB included), SMTP
  - Supports IPv4 and IPv6

## SOFTWARE

### Printer Command Languages:

- IPL, DP, ZSim2 (ZPL-II), DSim (DPL)
- XML enabled for SAP® All and Oracle® WMS

### Applications/Drivers:

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

### Smart Printing Languages:

- Honeywell C# for Printers
  - Smart Printing Developer Resource Kit
  - Write apps with .NET-compatible development environments
- Honeywell Fingerprint
  - Use Honeywell Fingerprint ApplicationBuilder

## Configuration & Device Management Support:

- PrintSet for printer configuration
- SmartSystems for remote management
- Sophisticated web interface for configuration, upgrade and 1:1 management
- Wavelink Avalanche

## BAR CODE 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 WTL

## GRAPHICS

Supports PCX, PNG, GIF and BMP file formats. Other formats supported with Label Generation Tools.

## MEMORY

**Standard:** 128 MB Flash memory, 128 MB SDRAM, Multi-GB USB memory device (FAT16/FAT32)

## USER INTERFACE

Color Touch UI, Icon UI

## USER INTERFACE LANGUAGES

On Color Touch LCD and Web Interface: English, Russian, German, French, Portuguese, Spanish, Italian, Korean, Simplified and Traditional Chinese

## POWER SUPPLY

**AC Voltage:** 100 to 240 VAC, 45 to 65Hz

**PFC Regulation:** IEC320/C14

**Power Consumption:** Standby 9W; Peak 300W

## 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)

**Humidity:** 20 to 80% non-condensing

## REGULATORY APPROVALS

RoHS Compliant, CE (EN55022 Class A), FCC Class A, UL/cUL, D Mark and CCC

## OPTIONS AND ACCESSORIES

Consult the PM Series Accessory Guide for full details: Integral self-strip unit with liner take-up, label taken sensor (LTS), media low sensor, media supply hub, parallel interface board, real-time clock, RFID UHF, additional serial interface boards<sup>1</sup>, industrial interface boards<sup>1</sup>, collapsible ribbon and liner core<sup>2</sup>, cutter<sup>2</sup>, linerless<sup>2</sup>, full batch label/liner rewinder<sup>3</sup>

1 Not applicable when using IPL firmware.

2 Compatible with PM43 and PM43c only.

3 Compatible with PM43 only.

For a complete listing of all compliance approvals and certifications, please visit [www.honeywellaidc.com/compliance](http://www.honeywellaidc.com/compliance).

For a complete listing of all supported barcode symbologies, please visit [www.honeywellaidc.com/symbologies](http://www.honeywellaidc.com/symbologies).

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