

## PB21, PB31 & PB51 Rugged Mobile Receipt Printers

A speedy choice for rugged mobile receipt printing, the PB21, PB31 and PB51 deliver a clear advantage for workers on-the-go who need to produce invoices, delivery receipts, service estimates, mobile point-of-sale receipts, inventory management schedules and sales orders. Whether used as a stand-alone printer, or paired with mobile computers, the PB21, PB31 and PB51 are built to increase operator efficiency.

PB series printers feature uniquely optimized print mechanisms, enabling rapid invoice printing. Mil-spec levels of durability and a lightweight design contribute to an overall mobile receipt printing package that reduces ownership costs and boosts worker productivity.

Fast-paced work demands reliability and predictability. With on-board sensors that detect notch, black mark, end-of-roll, and door open status (all communicated via an intuitive LCD display), PB series printers are easy to operate without the user manual, preventing unnecessary troubleshooting, wasted time and lost transactions.

As with other Honeywell Smart Printers, PB series can host standalone applications developed in Honeywell Fingerprint programming language, to address custom requirements today or in the future, without upgrading hardware.



*Speedy and rugged, the PB series is built to thrive in field service, route account and point-of-service applications.*

An integrated magnetic stripe reader and EMV-compliant smart card reader options, drop-in media loading and adjustable media holders enable workers to easily change tasks without changing equipment. Available in either secure wired or wireless configurations, PB series fit easily into a variety of network infrastructures.

Underscored by a rugged design, PB series printers deliver top-notch dependability—day after day. Unique mechanical design elements and a large-capacity battery help these printers to maintain productivity in challenging environments.

### FEATURES & BENEFITS



Built to survive real-world mobility demands, with a 1.5 m (5 ft) drop spec to concrete.



Sophisticated sensors and intuitive LCD display minimize wasted time troubleshooting.



Seamless integration with Honeywell mobile computers and other mobile devices.



Secure wire or wireless communication options, including Bluetooth®, WLAN, USB, and serial.



Optional integrated card reader supports latest EMV and ISO payment standards.

# PB21, PB31 & PB51 Technical Specifications

## PHYSICAL CHARACTERISTICS

### PB21:

Width: 101 mm (4 in)  
Height: 176 mm (6.9 in)  
Depth: 71 mm (2.8 in)  
Weight (with battery): 678 g (23.9 oz)

### PB31:

Width: 127 mm (5 in)  
Height: 182 mm (7.2 in)  
Depth: 81 mm (3.2 in)  
Weight (with battery): 828 g (29.2 oz)

### PB51:

Width: 160 mm (6.3 in)  
Height: 174.5 mm (6.9 in)  
Depth: 78.8 mm (3.1 in)  
Weight (with battery): 1189 g (42.0 oz)

## ENVIRONMENT

**Operating temperature:** -15°C to 50°C  
(5°F to 122°F)

**Storage temperature:** -30°C to 70°C  
(-22°F to 158°F)

**Humidity:** 10 to 90% (non-condensing)

**Sealing:** IP54 (excludes paper path)

**Drop spec:** 1.5 m (5 ft.) drops to concrete;  
26 times including all corners and sides  
(Mil Std 810F procedure)

**PB21/31:** 2 m (6.5 ft) multiple drops to concrete  
with optional protective case

## POWER

**PB21/31:** 7.4 V Li-Ion, 2.3 Ah, rechargeable  
battery (typical)

**PB51:** 14.8 V Li-Ion, 2.2 Ah, rechargeable battery

## MEMORY

**RAM:** 16 MB

**Flash:** 64 MB

## STANDARD COMMUNICATIONS

RS-232 Serial  
USB v.2.0

## OPTIONAL COMMUNICATIONS<sup>1</sup>

Bluetooth® (v2.0, Class 1)  
802.11b/g (excludes ETSI models)  
802.11b/g/n Dual-Band (2.4 GHz) & 802.11a  
(5 GHz) (ETSI models only)

## WIRELESS SECURITY

**Authentication & Encryption Options:** WEP  
(64 & 128 bit); LEAP; WPA-PSK (TKIP / RC4);  
WPA2/802.11i-PSK (CCMP / AES); EAP-TLS,  
-TTLS, -PEAP, -FAST

## PRINT SPEED AND RESOLUTION

4 ips (101.6 mm/sec)  
203 dpi (8 dots/mm)

## PRINT TECHNOLOGY

**Printhead:** Direct thermal

## CARD READER (PB21/31 OPTION)

3 track magnetic stripe reader supports ANSI,  
ISO 7811, AAMVA, CA MVA, RAW formats  
EMV-compatible smart card reader is EMV  
2000, ISO 7816, CCID compliant

## MEDIA

**Type:** Labels or receipt media

### Intermec Media:

Labels and Tags: Duratherm II, Duratherm III,  
Duratherm NIR, Duratherm III IR, Duratherm III  
Synthetic, Duratherm II, 5-mil Tag  
Receipts: Duratherm Receipt II,  
Duratherm Receipt III

### Media Width:

PB21: 57 mm (2.25 in)  
PB31: 83.8 mm (3.3 in)  
PB51: 111.5 mm (4.39 in)  
Core ID: 19 mm (0.75 in) standard

### Max OD:

PB21: 57.2 mm (2.25 in)  
PB31: 67.3 mm (2.65 in)  
PB51: 67.3 mm (2.65 in)

## CHARACTER SETS

**Standard:** English and Latin

**Optional:** Western European, ASCII, CodePage  
850, Central European, Cyrillic, Latin, Greek,  
Turkish, Hebrew, Arabic, Baltic, Baltic RIM,  
Vietnamese, Thai, Simplified Chinese,  
Traditional Chinese, Korean, UTF-8

## GRAPHICS

Supports user-defined fonts, graphics, formats  
and layouts, including custom logos.

## BARCODE SYMBOLOGIES

All major 1D and 2D symbologies are supported.

## USER INTERFACE

LCD and 4 buttons: standby, paper feed, setup,  
info four audio status indicators: error alert,  
hardware change alert, button press alert and  
startup alert.

## ACCESSORIES

Hand strap, shoulder strap, belt clip, protective  
case, cart mount, vehicle mount, battery pack,  
four-bay battery charger, A/C adapter, A/C power  
cord, truck power cable adapter, truck power  
cable, forklift power cable, serial cable

## SAFETY APPROVALS

**North America:** UL and cUL Listed, UL 60950-1

**Europe:** D Mark, EN 60950-1; CE marked

**Mexico:** NYCE Certified, NOM 19

**Other Countries:** IEC 60950-1

## EMC APPROVALS

USA FCC Title 47, Part 15, Subpart B, Class  
B; Europe EMC Directive (EN55022 Class B +  
EN55024); CISPR22

## SOFTWARE

**Programming Languages:** IPL, Fingerprint,  
ZSim (ZPLII Simulation), ESC-P, DSim (DPL),  
CSim (CPCL)

**Applications:** PrintSet Configuration Utility;  
Bartender Ultralite Labeling Software;  
SmartSystems™ Foundation Console/Server  
Software; Bootloader Utility; Drivers & Support for  
Linux/BSD (1.1,1.2), SAP, & Wavelink® Avalanche;  
InterDriver Printer Drivers for Microsoft® Windows®  
operating system

## WARRANTY

One year; additional Medallion service  
packages available

<sup>1</sup>Not all communication options are available in all regions. Contact your Honeywell representative for more information.

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).

## Honeywell Sensing & Productivity Solutions

9680 Old Bailes Road

Fort Mill, SC 29707

800-582-4263

[www.honeywell.com](http://www.honeywell.com)

PB21-PB31-PB51-DS Rev A 12/15  
© 2015 Honeywell International Inc.

**Honeywell**