# POWERSCAN™ PM9100

DATALOGIC

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## TECHNOLOGY DRIVEN

The new PowerScan™ PM9100 series includes Datalogic's innovative new technology, a green 'laser-like' acquisition system based on a pioneering miniaturized scan engine with outstanding 1D decoding capability. The PM9100 readers feature Datalogic's exclusive 3GL™ (3 Green Lights) for superior good-read feedback.

## DATALOGIC'S STAR CORDLESS SYSTEM™

The PM9100 reader is based on Datalogic's STAR Cordless System™ 2.0, a proprietary narrow band radio system that offers scalable solutions from simple point-to-point applications to point-to-multipoint applications as well as network connections combined with seamless roaming for complex installations, making the STAR 2.0 Cordless System the most versatile and effective radio system, without interference caused by existing wireless solutions (Wi-Fi and/or *Bluetooth*).

## BUILT TO LAST

The PM9100 reader has been tested to withstand extreme environmental conditions and is suitable for the toughest industrial applications.

## DEVELOPED WITH THE USER IN MIND

The PowerScan PM9100 series includes different models able to satisfy all customers' needs; the product is available in a basic cordless model and in two different versions with display and 4 or 16-key keypads. The BC9180 base includes one model with two different Ethernet connections: Standard Ethernet and Industrial Ethernet protocols such as Ethernet IP and Modbus.

PM9100 reader is fully supported with Datalogic's Aladdin™ configuration program, providing a user-friendly interface for the start-up procedure and device programming.



## FEATURES

- Datalogic's new linear imaging technology
- Compatible with Datalogic's STAR Cordless System
- Datalogic 3GL™ and loud beeper for good-read feedback
- Available in 3 models:
  - Basic
  - With Display and 4-Key Keypad
  - With Display and Full Alphanumeric Keypad
- Radio frequencies available in 433 or 910 MHz
- Point-to-point and multi-point transmission
- Seamless roaming
- Ethernet Connectivity (Standard and Industrial)
- User replaceable Lithium-Ion battery
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.6 ft
- Decoding capability up to 2.5 mils
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY-APPLICATIONS

- Manufacturing / Warehouse
  - Component Traceability
  - Work-in-Progress
  - Sub-Assembly
  - Quality Control
  - Time and Cost Analysis
  - Control Machines Set-up
  - In-line Inventory Control
- Retail / POS Check-out
- Transportation & Logistics / Warehouse / Sorting

# POWERSCAN™ PM9100

DATALOGIC

TECHNICAL SPECIFICATIONS

## CORDLESS COMMUNICATIONS

| | |
|---|---|
| DATALOGIC STAR CORDLESS SYSTEM | Point-to-Point Configuration<br>Multi-Point Configuration:<br>Max. Readers per Radio receiver: 16 |
| RADIO FREQUENCY | 433 MHz; 910 MHz |
| RADIO RANGE (OPEN AIR) | 433 MHz: 50 m / 164 ft @ 500 KB/s;<br>100 m / 328 ft @ 19.2 KB/s<br>910 MHz: 50 m / 164 ft @ 500 KB/s;<br>400 m / 1,312 ft @ 36.8 KB/s, frequency hopping;<br>50 m / 164 ft at 36.8 KB/s, fixed channel;<br>Seamless Roaming; Two Way Communications |

## DECODING CAPABILITY

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|---|---|
| PM9100 | GS1 DataBar™ linear codes, UPC/EAN, UPC/EAN P2/P5 add ons, UPC/EAN Coupons, ISBN, Code 128, EAN 128, Code 39, Code 39 Full ASCII, Code 39 CIP, Code 32, Codabar, Interleaved 2 of 5, IATA, Industrial 2 of 5, Standard 2 of 5, Code 11, MSI, Plessey, Code 93, Follet 2/5, Code 4, Code 5, Datalogic 2 of 5, Codablock F |

## ELECTRICAL

| | |
|---|---|
| BATTERY | Li-Ion 2150 mAh; |
| CHARGE TIME | External Power: 4 Hours;<br>Host Power: 10 Hours |
| READS PER CHARGE | 50,000+ (continuous reading) |
| CRADLE INDICATOR LEDS | Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow) |
| CURRENT | External Power: Max. 10 W (charging);<br>POT: Max. 500 mA (charging) |
| INPUT VOLTAGE | External: 10 - 30 VDC; POT: 5 VDC +/- 10% |

## ENVIRONMENTAL

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|---|---|
| AMBIENT LIGHT | Immune to light exposure in offices/facilities and direct exposure to sunlight. |
| DROP RESISTANCE | Withstands 50 drops from 2.0 m / 6.6 ft to concrete |
| ESD PROTECTION (AIR DISCHARGE) | 20 kV |
| HUMIDITY (NON-CONDENSING) | 0 - 95% |
| PARTICULATE AND WATER SEALING | IP65 |
| TEMPERATURE | Operating: -20 to 50 °C / -4 to 122 °F<br>Storage/Transport: -40 to 70 °C / -40 to 158 °F |

## INTERFACES

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|---|---|
| INTERFACES | Keyboard Wedge; RS-232; RS-485;<br>USB: OEM USB; USB COM; USB HID Keyboard;<br>Optional Ethernet (Standard, Industrial) |

## PHYSICAL CHARACTERISTICS

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|---|---|
| COLORS AVAILABLE | Yellow/Black |
| DIMENSIONS | Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in<br>PM9100: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in |
| DISPLAY | PM9100-D, PM9100-DK: Display Type: Graphic with White Backlight; Font Dimensions: User selectable<br>(6 lines x 21 columns default);<br>Screen Dimensions: 48 x 132 pixels |
| KEYPAD | PM9100-D: 4 Configurable Keys<br>PM9100-DK: 16 Configurable Keys |
| WEIGHT | PM9100-XX: 405.0 g / 14.2 oz<br>PM9100-DXX / PM9300-DKXX: 435.0 g / 15.3 oz |

## READING PERFORMANCE

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|---|---|
| LIGHT SOURCE | Green LED |
| PRINT CONTRAST RATIO (MINIMUM) | 15% |
| READING ANGLE | Pitch: +/- 75°; Roll (Tilt): +/- 45°; Skew (Yaw): +/- 70° |
| READING INDICATORS | Beeper; Datalogic Three Green Lights (3GL™) Good Read Feedback: Datalogic 'Green Spot' on the Code, Dual Good Read LEDs; Good Transmission |
| RESOLUTION (MAXIMUM) | 2.5 mils |

## READING RANGES

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|---|---|
| TYPICAL DEPTH OF FIELD | Minimum distance determined by symbol length and scan angle.<br>Printing resolution, contrast, and ambient light dependent.<br>**Code 39**<br>5 mils: 3.0 to 32.0 cm / 1.2 to 12.6 in<br>7.5 mils: 2.0 to 48.0 cm / 0.8 to 18.9 in<br>10 mils: 2.0 to 66.0 cm / 0.8 to 26.0 in<br>20 mils: 3.0 to 110.0 cm / 1.2 to 43.3 in<br>40 mils: 3.0 to 230.0 cm / 1.2 to 90.6 in<br>**EAN 13**<br>2.0 to 61.0 cm / 0.8 to 24.0 in<br>**Note: Reading performances may change with different symbologies** |

## SAFETY & REGULATORY

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|---|---|
| AGENCY APPROVALS | The product meets necessary safety and regulatory approvals for its intended use.<br>See the Regulatory Addendum for details. |
| ENVIRONMENTAL COMPLIANCE | Complies to China RoHS; Complies to EU RoHS |
| LED CLASSIFICATION | Product compliant according to IEC 62471 |

## UTILITIES

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|---|---|
| DATALOGIC ALADDIN™ | Datalogic Aladdin configuration program is available for download at no charge. |
| OPOS / JAVAPOS | JavaPOS and OPOS Utilities are available for download at no charge. |
| REMOTE HOST DOWNLOAD | Available on request |

## WARRANTY

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|---|---|
| WARRANTY | 3-Year Factory Warranty |

ACCESSORIES

### Base Stations/Chargers

- BC9030-433 / BC9030-910 Base/Charger, Multi-Interface
- BC9130-433 / BC9130-910 Base/Dual Charger, Multi-Interface
- BC9160-433 / BC9160-910 Base/ Dual Charger, Multi-Interface/RS-485
- BC9180-433 / BC9180-910 Base/ Dual Charger, Multi-Interface/Ethernet (Standard, Industrial)



### Batteries/Battery Chargers

- FBP-PM90 Fixed Battery Pack
- MC-P090 Multiple Battery Charger, 4-Slots
- RBP-PM90 Removable Battery Pack



### Cases/Holsters

- HLS-P080 Universal Holster (HLS-8000)
- PC-P090 Protective Case/Belt Holster (PC-9000)



### Mounts/Stands

- 7-0404 Industrial Take-Up Reel
- HLD-P080 Desk/Wall Holder (HLD-8000)
- STD-P090 Hands Free Stand (STD-9000)
- VMK-P090 Vehicle Mount Kit



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