# POWERSCAN™ PM9300 LASER

**⊕DATALOGIC**

## TECHNOLOGY DRIVEN

The PowerScan™ PM9300 series includes different models able to satisfy all customers' needs; the PM9300 is the basic cordless model, the PM9300-D intermediate model includes a display and 4-key keypad, and the ultimate PM9300-DK model features a display with a full 16-key keyboard. The PM9300-DK model significantly increases the sophistication of interaction with the host system and opens up new potential uses of the scanner, making it suitable for applications that would normally require a more expensive portable data terminal. The BC9180 base includes one model with two different Ethernet connections: Standard Ethernet and Industrial Ethernet protocols such as Ethernet IP and Modbus.

## DATALOGIC'S STAR CORDLESS SYSTEM™

Narrow band radio communications with Datalogic's STAR Cordless System™ 2.0 provides the key to increased productivity and flexibility in the workplace. It offers scalable solutions from simple point-to-point applications to networking capabilities combined with seamless roaming for complex installations.

## GOOD-READ FEEDBACK AND SUPERIOR READING PERFORMANCE

The PM9300 readers feature Datalogic's exclusive 3 Green Lights (3GL™) for superior good-read feedback. The patented 'Green Spot' directly on the code and dual Good Read LEDs on the top and back of the cap add increased visibility at any angle.

## FEATURES

- Optics available in:
  - **Standard Range:** contact up to 1.6 m / 5.2 ft
  - **Auto Range:** up to 11.5 m / 37.7 ft on reflective bar codes
- Available in 3 models:
  - Basic
  - With Display and 4-Key Keypad
  - With Display and Full Alphanumeric Keypad
- 100% Compatible with Datalogic's STAR Cordless System
- Radio frequencies available in 433 or 910 MHz
- Point-to-point and multi-point transmission
- Seamless roaming
- Ethernet Connectivity (Standard and Industrial)
- Datalogic 3GL™ and loud beeper for good-read feedback
- User replaceable Lithium-Ion battery
- Operates over a wide range of temperatures
- Water and Particulate Sealing Rating: IP65
- Drop resistance to 2.0 m / 6.5 ft
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

## INDUSTRY-APPLICATIONS

- Manufacturing / Warehouse
- Retail / POS Check-out
- Transportation & Logistics / Warehouse / Sorting

## TECHNICAL SPECIFICATIONS

### CORDLESS COMMUNICATIONS

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|---|---|
| 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 at 500 KB/s;<br>100 m / 328 ft at 19.2 KB/s<br>910 MHz: 50 m / 164 ft at 500 KB/s;<br>400 m / 1,312 ft at 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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|---|---|
| PM9300-XX | 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 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 |
| PM9300-XXARXX | 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, Standard 2 of 5, MSI, Code 93 |

### ELECTRICAL

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|---|---|
| BATTERY | Li-Ion 2150 mAh;<br>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 | Operating (Typical):<br>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 / 6.5 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>PM9300: 21.2 x 11.0 x 7.4 cm / 8.3 x 4.3 x 2.9 in |
| DISPLAY | PM9300-D, PM9300-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 | PM9300-D: 4 Configurable Keys<br>PM9300-DK: 16 Configurable Keys |
| WEIGHT | PM9300-XX: 405.0 g / 14.2 oz<br>PM9300-ARXX, PM9300-DXX / PM9300-DKXX: 435.0 g / 15.3 oz<br>PM9300-DARXX / PM9300-DKARXX: 465.0 g / 16.4 oz |

### READING PERFORMANCE

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| LIGHT SOURCE | 630 - 680 nm VLD |
| PRINT CONTRAST RATIO (MINIMUM) | 25% |
| READ RATE (MAXIMUM) | PM9300-XX: 104 +/- 12 scans/sec.;<br>PM9300-ARXX: 35 +/- 5 scans/sec. |
| READING ANGLE | PM9300-XX: Pitch: 40°; Roll (Tilt): +/- 35°;<br>Skew (Yaw): +/- 65°<br>PM9300-ARXX: Pitch: 60°; Roll (Tilt): +/- 10°;<br>Skew (Yaw): +/- 65° |
| 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) | PM93X0: 0.076 mm / 3 mils;<br>PM93X0 Auto Range: 0.190 mm / 7.5 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. |

| PM9300: Code 39 | PM9300 AR: Code 39 |
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| 5 mils: 1.5 to 28.0 cm / 0.4 to 11.8 in | 7.5 mils: 9.0 to 50.0 cm / 3.5 to 19.7 in |
| 7.5 mils: 1.5 to 42.0 cm / 0.6 to 16.5 in | 10 mils: 14.0 to 85.0 cm / 5.5 to 33.5 in |
| 10 mils: 2.0 to 50.0 cm / 0.8 to 19.7 in | 15 mils: 15.0 to 155.0 cm / 5.9 to 61.0 in |
| 20 mils: 2.0 to 110.0 cm / 0.8 to 43.3 in | 20 mils: 15.0 to 220.0 cm / 5.9 to 86.6 in |
| 40 mils: 2.0 to 160.0 cm / 0.8 to 63.0 in | 40 mils: 20.0 to 340.0 cm / 7.9 to 133.9 in |
| EAN 13: 2.5 to 65 cm / 1.0 to 25.6 in | 55 mils: 25.0 to 420.0 cm / 9.8 to 165.4 in |
| | **Reflective Labels: Code 39:** 70 mils: up to 9.0 m / 29.0 in |
| | 100 mils: up to 11.5 m / 37 ft |

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 EU RoHS; Complies to China RoHS |
| LASER CLASSIFICATION | Caution Laser Radiation - Do not stare into beam<br>CDRH Class II; IEC 60825-1 Class 2 |

### 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**
- BC8030-433, BC8030-910 Base/Charger Multi-Interface
- BC8060-433, BC8060-910 Base/Charger, Multi-Interface/RS-485
- BC9180-433, BC9180-910 Base Station/Dual Charger
- CHR-PM80 Charger (C-8000)
- SBS-PM80 Spare Battery Slot compatible w/BC8060

**Batteries/Battery Chargers**
- FBP-PM80 Fixed Battery Pack (FBP-8000)
- MC-P080 Multiple Battery Charger, 4-Slots (MC-8000)
- RBP-PM80 Removable Battery Pack (RBP-8000)

**Cases/Holsters**
- 11-0138 Heated Holder, 36 VDC;
  11-0139 Heated Holder, 24 VDC;
  11-0140 Heated Holder, 48 VDC (not for use with PM8300-D models)
- HLS-P080 Universal Holster (HLS-8000)
- PC-P080, PCD-P080 Protective Case/Belt Holster (PC-8000)

**Mounts/Stands**
- 7-0404 Industrial Take-Up Reel
- HLD-P080 Desk/Wall Holder (HLD-8000)
- STD-P080 Hands Free Stand (STD-8000)
- VMK-PM80 Vehicle Mount Kit

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