POWERSCAN™ PM9100

⬦DATALOGIC

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 - APPLICATION

- 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

TECHNICAL SPECIFICATIONS

CORDLESS COMMUNICATIONS

Datalogic STAR Cordless System™	Point-to-Point Configuration Multi-Point Configuration: 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; 100 m / 328 ft @ 19.2 KB/s 910 MHz: 50 m / 164 ft @ 500 KB/s; 400 m / 1,312 ft @ 36.8 KB/s, frequency hopping; 50 m / 164 ft at 36.8 KB/s, fixed channel; Seamless Roaming; Two Way Communications

DECODING CAPABILITY

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 3350 mAh
Charge Time	External Power: 4.5 Hours; Host Power: 10 Hours
Reads Per Charge	60,000+ (continuous reading)
Cradle Indicator LEDs	Battery Charging (Red); Charge Completed (Green); Power/Data (Yellow)
Current	External Power: Max. 10 W (charging); POT: Max. 500 mA (charging)
Input Voltage	External Power: 10-30 VDC; POT: 5 VDC +/- 10%

ENVIRONMENTAL

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 Storage/Transport: -40 to 70 °C / -40 to 158 °F

INTERFACES

Interfaces	Keyboard Wedge; RS-232; RS-485; USB: OEM USB; USB COM; USB HID Keyboard; Optional Ethernet (Standard, Industrial)

PHYSICAL CHARACTERISTICS

Colors Available	Yellow/Black
Dimensions	Cradle: 24.0 x 10.8 x 9.5 cm / 9.4 x 4.3 x 3.8 in 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 (6 lines x 21 columns default); Screen Dimensions: 48 x 132 pixels
Keypad	PM9100-D: 4 Configurable Keys PM9100-DK: 16 Configurable Keys
Weight	PM9100-XX: 405.0 g / 14.2 oz PM9100-DXX / PM9100-DKXX: 435.0 g / 15.3 o

READING PERFORMANCE

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

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

SAFETY & REGULATORY

Agency Approvals	The product meets necessary safety and regulatory approvals for its intended use. 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

Datalogic Aladdin™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JavaPOS	OPOS and JavaPOS Utilities are available for download at no charge
Remote Host Download	Available on request

WARRANTY

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/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

Miscellaneous

SD9030 STAR System USB Industrial Dongle (433 or 910 MHz available)

DATALOGIC PRODUCT OFFERING

Sensors | Hand Held scanners | Mobile Computers | Laser Marking Systems | Safety Laser Scanner | Vision Systems | Stationary Industrial Scanners | Safety Light Curtains