

P300FZY

Industrial Bar Code Scanner with Fuzzy Logic



BAR CODE SCANNERS

State-of-the-art Technology for Reading Damaged or Poorly Printed Bar Codes

Symbol introduces the P300FZY decoded industrial hand-held scanner with enhanced second-generation fuzzy logic. In addition to great performance on high-quality 1-D bar codes, it offers an unsurpassed ability to quickly and accurately read damaged, dirty and poorly printed bar codes that are commonly found in rugged industrial environments.

Designed for Extreme Environments (XE)

The P300FZY meets the most stringent industrial standards, earning the Symbol XE class label. It is sealed to the IP54 specification against windblown dust and rain, and withstands multiple 6-ft./1.8 m drops to concrete over the entire temperature range of -22° to 122°F/-30° to 50°C.

Its XE class ruggedness and high-throughput scanning ability make the P300FZY an ideal choice for a wide range of 1-D applications in industrial environments such as distribution centers, manufacturing floors and warehouses.

Innovative Design Features

As innovative as it is rugged, the P300FZY delivers the sophisticated ergonomic and operational features industrial applications demand. The scanner's exit window is scratch-resistant and recessed to prevent damage from direct contact. A twist-to-lock cable seals the scanner and provides superior strain relief. For those applications requiring quick access and out-of-the-way storage, the P300FZY comes with a built-in metal hook for attachment to a pulley. And the large, LED-enhancing window and extra loud 75 dB twin beepers make the "good decode" feedback impossible to miss. The P300FZY also utilizes the award-winning Phaser "handle-forward" design making the scanner extremely comfortable to hold and reduces fatigue when scanning throughout a full shift in scan-intensive applications.

High-Productivity Scanning

Building on Symbol's experience and leadership in the industrial hand-held scanner market, the P300FZY offers numerous hardware and software improvements that deliver better performance and more durability than ever. The enhanced digital fuzzy logic processing resides on the single Integrated Multibit Processor ASIC with a digital signal processor. This results in a noticeable improvement in decode speed, increased working range, and the ability to read bar codes that are damaged or poorly printed. The high-visibility 650 nm laser makes it faster and easier to aim the scanner and read bar codes in sunlight and bright ambient light. These improvements combine to provide reliable high-throughput scanning, maximizing user productivity.



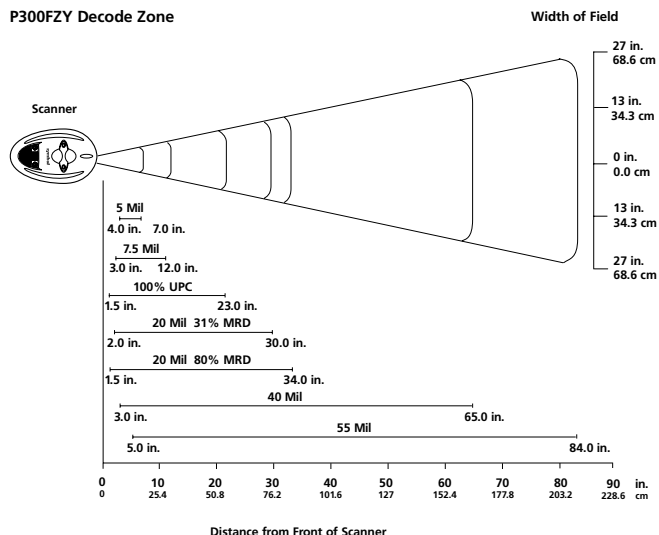
Features	Benefits
XE-class durability	Withstands multiple 6-ft./1.8 m drops to concrete
Fuzzy logic technology	Unsurpassed reading of poorly printed, dirty or damaged bar codes
Sealed to IP54 standard	Protected from windblown dust and rain
650 nm laser	Easy to see laser beam
Flash memory	Easy software upgrades in the field
Advanced Data Formatting	Seamless integration into existing host applications

Easy System Integration

The P300FZY has four on-board interfaces for quick and inexpensive direct connectivity to the widest variety of host systems. These interfaces include RS-232, keyboard wedge, Wand interfaces and all popular host terminals through the use of Symbol's Synapse "smart" cables, including those using USB ports. Synapse "smart" cables provide the flexibility to connect to many different host types and eliminate the need for separate scanner-to-host controllers. In addition, the P300FZY has built-in Advanced Data Formatting (ADF), giving you the ability to modify the bar code data string before sending it to the host. This feature virtually eliminates formatting-driven application modifications, making the introduction of the P300FZY into a pre-existing application almost effortless.

To find out how your company's workforce can be more productive using the P300FZY, visit us at www.symbol.com

P300FZY Decode Zone



P300FZY Specification Highlights

Physical Characteristics

Dimensions:	6.8 in. H x 5.9 in. L x 2.9 in. D/ 173 mm H x 150 mm L x 74 mm D
Weight:	11 oz./312 gm (without cable)
Power Requirements:	Beeper On 300 mA Laser On 190 mA Standby 90 mA continuous mode 50 mA low power mode
Memory:	8KB SRAM/128KB Flash
Power Supply:	Input voltage from 4.75 V to 14V

Performance Characteristics

Interface Type:	Integrated RS-232, Wand and Keyboard supported by Synapse Smart Cables (USB, OCIA, Dual RS-232, etc.)
Scan Element Type:	Retro-collective
Light Source:	650 nm laser diode/1.2 mW max
Scan Rate:	35 scans per second
Minimum Reflectance Difference:	25% measured at 650 nm
Program Loading:	Parameters set by bar code menus Flash memory for software upgrades
Decode Capabilities:	UPC-A, UPC-E, EAN 8, EAN 13, Code 39, Tri-Optic Code 39, Code 93, Discrete 2 of 5, Bookland EAN, UPC Coupon Code, Code 39 Full ASCII, Code 128, Interleaved 2 of 5, Codabar, UCC.EAN 128 with full autodiscrimination between all symbologies, MSI Plessey, UPC E1

User Environment

Operating Temperature:	-22° to 122°F/-30° to 50°C
Storage Temperature:	-40° to 158°F/-40° to 70°C
Humidity:	5% to 95% (non-condensing)
Shock:	Withstands multiple 6-ft./1.8 m drops to concrete
Ambient Light Immunity:	Sunlight: 10,000 ft.-candles Incandescent, Fluorescent, Sodium Vapor, and Mercury Light: 450 ft.-candles, 4,845 LUX. Immune to direct exposure from normal office and factory level lighting
Environmental Sealing:	IP54 (Industry standard for dust and water sealing)
Agency Approvals:	CDRH Class II, IEC 825 Class II, FCC Class A, UL, CSA, VDE

Regulatory

Electrical Safety:	Certified to UL1950, CSA C22.2 No. 950, EN60950/IEC950
Laser Safety:	CDRH Class II, IEC Class 2
EMI/RFI:	FCC Part 15 Class B, IECES-003 Class B, European Union EMC Directive

EN410 CE



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