The WS4 Thermal Printer
Maximizing Performance, Versatility and Investment

Features
- User-Friendly Operation and Serviceability
- Printing Resolution of 203 / 300 dpi
- Thermal Transfer and Direct Thermal Models
- Standard Ethernet
- Prints Labels, Receipts, Tags and Wristbands
- Long 300m (984.2 ft) Ribbon - Face-in/out
- Emulations (SZPL®, SEPL®, SDPL®, SIPL®)
- Wireless Operation via Bluetooth™ or Wi-Fi™

Industries
- Logistics
- Transportation
- Retail
- General Office
- Government
- Entertainment
- Manufacturing
- Healthcare
- Hospitality

www.satoamerica.com/ws4series
**GENERAL SPECIFICATIONS / WS4 Series**

**MEDIA SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Sensor Type</th>
<th>Adjustable I-Mark Sensor (Reflective), Label Gap Sensor (Transmissive), Label Taken Sensor (Dispenser Option)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media Type</td>
<td>Roll or Fan-fold Die Cut Labels, Plain Paper Face Stock, Synthetics and Continuous Stock, Ticket</td>
</tr>
<tr>
<td>Media Thickness</td>
<td>0.002&quot; – 0.007&quot; (0.06 mm – 0.19 mm)</td>
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<tr>
<td>Media Roll Diameter</td>
<td>Diameter: Roll Max. Outside Diameter: 5.0&quot; (127.0 mm), Core Diameter: 1.0&quot; / 1.5&quot; (25.4 mm / 38.1 mm)</td>
</tr>
<tr>
<td>Media Width</td>
<td>0.88&quot; (22.4 mm) to 4.53&quot; (115.0 mm)</td>
</tr>
<tr>
<td>Media Length</td>
<td>Continuous: TT/DT: 0.31&quot; (10.0 mm) to 39.21&quot; (996.0 mm)</td>
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<tr>
<td>Tear-Off</td>
<td>TT/DT: 0.31&quot; (25.4 mm) to 39.21&quot; (996.0 mm)</td>
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<tr>
<td>Cutter</td>
<td>TT/DT: 0.76&quot; (25.4 mm) to 39.09&quot; (993.0 mm)</td>
</tr>
<tr>
<td>Dispenser</td>
<td>TT/DT: 0.92&quot; (25.4 mm) to 5.92&quot; (150.4 mm)</td>
</tr>
<tr>
<td>Primary (Thermal Transfer Model)</td>
<td>Max. 984.2 ft (300m) Center Justified</td>
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<tr>
<td>Core Diameter</td>
<td>0.5&quot; (12.7 mm) for 100m (328.0 ft) / 1.0&quot; (25.4 mm) for 300m (984.2 ft)</td>
</tr>
<tr>
<td>Wind Direction</td>
<td>Face-out / Face-in, No Setting Change Required</td>
</tr>
<tr>
<td>SATO Genuine Consumables</td>
<td>For maximum print quality and optimum use, SATO recommends the use of SATO Genuine Consumables.</td>
</tr>
</tbody>
</table>

**COMMUNICATION INTERFACES**

| Standard             | USB (Type A, Type B), LAN, RS232C                                                                          |
| Wireless WWAN        | Optional WLAN, IEEE 802.11 b/g/n, Optional Bluetooth, V2.1 + EDR                                           |
| Wireless LAN Protocols | ARP, IP, ICMP, UDP, TCP, HTTP, DHCP, Socket, LPR, IPv4, IPv6, SNMPv2                                      |
| Emulations           | Auto Detect - SBPL®, SZPL®, SEPL®, SDPL®, SIPL®                                                          |

**BARCODE SYMBOLOGIES**

**Linear**


**2D Symbologies**

- PDF417 Including Micro PDF, MAXI Code, QR Code, GS1 Data Matrix (ECC200)

**FONT SPECIFICATIONS**

- 7 Bitmap SATO Fonts, 2 Scalable SATO Fonts, Multi-National Language Support, Single and Double Byte Fonts (Korean, Chinese and Japanese)

**OPERATING & ENVIRONMENT CHARACTERISTICS**

**Environment**

- Operating Temperature: 41 to 104°F (5 to 40ºC), 25 – 85% RH, Non-condensing
- Storage Temperature: -4 to 140°F (-20 to 60ºC), 10 – 90% RH, Non-condensing

**Status Indicators**

- 2 Tricolor LEDs (Red, Green and Orange)

**Power Requirements**

- Energy Star™ Input Voltage Adapter: AC100V-240V (Auto Switching) ; DT: 60W / TT: 90W

**OPTIONS**

- Dispenser, Full Cutter, Real Time Clock Module (future option), Wireless LAN, Bluetooth Interface, External Unwinder

**MISCELLANEOUS**

**Standards & Agency Approvals**

- EN60950-1, UL60950-1/CSA C22.2 No.60950-1, CE Marking, FCC, TUV GS, ICES-003, RCM, CCC, KC, EAC, S-Mark

**User Serviceable**

- Thermal Printhead and Platen Roller can be replaced without tools

**SATO SUPPORT**

- Ensure top quality and long-lasting performance with SATO’s Onsite Service Plans and Depot Service Contracts.

Note: Specifications subject to change without notice.