

POWERFUL PARKING PERFORMANCE DATA

SPS-X - Wireless Smart Parking Sensor

Real-Time Guidance, Stall Usage Data Collection, Actionable Analytics

True smart parking starts at the stall and eleven-x's innovative wireless SPS-X sensor detects and monitors stall occupancy in real-time and provides data and actionable insights that enables evidence-driven planning and programs.

The SPS-X smart parking sensor is an innovative patent-pending LoRaWAN®-based device that utilizes multiple technologies including magnetic sensing, radar, Bluetooth and Al that provides:

- Real-time stall occupancy status and monitoring
- Industry leading accuracy based on multiple sensing technologies backed by advanced AI
- Designed and engineered for maximum reliability and robustness
- Leverages standards-based low power wireless technology
- Ultra-long battery life
- Enables a variety of key analytics and insights
- Easy deployment and integration with other technologies
- Integrated device management
- Lowest cost per stall

Thinking of deploying in harsh outdoor environments? No problem, the SPS-X utilizes multiple technologies to maintain its industry leading accuracy and reliability in winter conditions, and filters out negative influencers such as buried metal, electromagnetic interference and other factors for the most reliable and accurate stall monitoring.

The SPS-X comes with an easy-to-use web app that enables easy deployment, sensor calibration and insights, making installation and daily management stress-free. Add additional sensors at any time in minutes.

SPS-X BENEFITS:

- Real-time stall monitoring
- Ultra-long life (think up to 10 years, not 3)
- Industry-leading accuracy
- Unsurpassed reliability
- Based on low power LoRaWAN technology for always on detection and power saving communications
- Lowest cost per stall price point:
 - o Cost-effective sensor
 - o Near-zero maintenance
 - Low connectivity fees
- Actionable analytics
- Easy sensor management
- Simple installation process
- Easy integration with other technologies



TECHNICAL SPECIFICATIONS

Communications

Communication Protocol LoRaWAN® 1.02 | BLE (Bluetooth Low Energy)

Device Class Class A

North American Standard: 902-928 MHz Frequency

Transmit Power Up to 20dBm

Mechanical

Enclosure Ruggedized enclosure

Antenna Internal

Ingress Rating IP67 – waterproof I dustproof

Mounting Indoor or outdoor 576g (1.27lbs) Weight

Security AES-128 encryption (end-to-end)

Tamper Detection

Provisioning Secured key injection and key exchange

> Key management with join server NFC provisioning support [optional] Infield or back office secure provisioning Smart phone app for rapid provisioning

Environments

-40°C to 85°C Operating Temperature Battery Life Up to 10 years **Battery Parameters** 3.6V, 19,000mAh 0% - 100% Humidity

Certifications FCC Part 15.247 ISED RSS-247

*Specifications subject to change





FOR MORE INFORMATION; web: www.eleven-x.com | email; collaborate@eleven-x.com |



PARKING SENSOR

LORAWAN

CLOUD

BACK OFFICE

APPLICATIONS



