Willard SM/RT EXIT

A Life Safety IoT Solution

PRESENTED BY:



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THE CHALLENGE NFPA 101 Life Safety Regulations





- Requires that Exit Sign batteries must be tested every 30 days for not less than 30 seconds
- Annual 90-minute testing required
- Exit Signs must remain operational during testing
- Written records shall be kept by the owner for inspection by the Authority Having Jurisdiction (AHJ)



Traditional Method for Sign Compliance can be:Labor-IntensiveInconvenientA LiabilityExpensiveA Complex Paper Trail



Fines start at \$13,000 per violation and raise to \$132,000 for repeat offenses

OLD VS. NEW (SUSTAINABILITY)



Traditional Exit Sign

- Meets UL/ETL, NFPA 101, OSHA, NEC and IESNA standards
- 90-minute Nickel Cadmium Battery (NiCad) -Cadmium is a RESTRICTED substance under REACH & BANNED substance under RoHS, a HAZARDOUS substance under TSCA and considered IMMEDIATELY DANGEROUS TO LIFE & HEALTH under OSHA.
- "Memory Effect". Not recommended to discharge fully—impacts battery capacity and life
- 3-5-year battery life
- 6-9 years useful life of Exit Sign

Meets UL/ETL, NFPA 101, OSHA, NEC & IESNA standards

Willard Smart

Exit Sign [WSES]

- 4-hour Nickel Metal Hydride Battery (NiMH)
- Environmentally safe / green battery disposal
- 13+ year battery life
- 15 years useful life of Exit Sign
- Integrated patented LED flood lighting
- Embedded control board
- Motion sensors & internal temperature sensor
- Embedded WIFI & Bluetooth
- An IoT Gateway

SMART THE IOT SOLUTION

- Patented Exit Sign Hardware with WiFi communications to the Cloud
- The most advanced Exit Sign on the market with 13 embedded sensors
- Consolidated enterprise compliance view of all Exit Sign Battery
- Self Diagnostics / Self Reporting
- Maximo EAM Integration for maintenance of signs / Work Orders
- Smart Ledger App (iOS) for maintenance to inspect all life safety assets
- Digitization of manual life safety into Cloud
- Compliance reports on-demand





- Enterprise data visibility
- Remove need for manual testing / visual inspection
- Instant ROIs—reduced liability and immediate cost out
- Risk Reduction
 - Avoidance of expense penalties
 - Automation of Compliance
 - Knowing Exit Signs will function in an emergency
- Maximo EAM provides automated service requests
- Cloud-based IoT solution software



ROI & VALUE



The Cost of Traditional Exit Signs









Unit Price: \$100-\$300 30-second monthly test costs

90-minute annual test costs

\$5,000 – \$10,000 per sign over 6-9 year lifespan

\$1,500 – \$3,300 per sign cost for 5 years

\$25 - \$50

per sign per month

Realize quick ROI with Willard Smart Exit Signs

12-Month Full Return on Investment



- Finance options (CapEx / OpEx through IBM Global Finance)
- Safety Knowing your Exit Signs will function in any emergency
- Useful life of Exit Sign 15 years as opposed to 6-9

THE WILLARD SMART EXIT PARTNERSHIP TEAM SMART



- WSES sales force
- Utilizes Maximo software
- Offers information platforms that protect privacy and the integrity of large amounts of data



- WSES distributor
- Oversees all sign installations
- Offers customers sign maintenance and management packages through its Network Operations Center



- Provides software and firmware development
- Mobile and web applications for installation and administration
- Multi-cloud data lake

WillardloT

- WSES developer
- Develops IoT solutions that target Life Safety Equipment focusing on digitizing the data flow and regulatory compliance



- Designed and engineered WSES
- WSES components designed for useful lifecycles that significantly exceed lighting industry standards

FUTURE INNOVATIONS

Willard Smart Exit Sign as an IoT Gateway/Device

- Wayfinding
- Track & Trace
- Environmental Sensing
- Acoustics
- Edge Computing
- People Counting

Additional Smart Life Safety Devices

- Emergency Lighting
- Fire Extinguishers
- Acoustic Fire Doors
- Sprinkler Systems
- Smoke Detectors