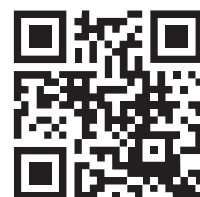


E-WATS Wireless Automatic Test System for Emergency Lights

Delivering Value Beyond Illumination



INTERNET OF THINGS



ASSURANCE TESTING FOR EFFICIENCY & SAFETY

Emergency lighting systems are essential to the safety of building occupants. It is necessary to ensure that emergency and exit lights are in good working condition when emergency occurs. Building managers must allocate manpower resources to conduct functional testing, log accurate inspection procedures and administer regular audits which are both costly and vulnerable to human errors.

Assurance testing of emergency lights with AgilLiteS Wireless Automatic Test System (E-WATS) is part of ST Engineering's smart lighting portfolio, a smart wireless infrastructure-free and fully automatic solution to carry out all tests required under SCDF SS 563 for all emergency lightings intended for functionality, safety and operational efficiency.

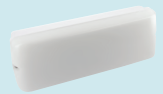
Our solution ensures that emergency lighting systems are in compliant with standards and industry regulations, cost-effective and reliable than manual testing.



Emergency Lighting Wireless ATS Applications



Emergency Exit Signs



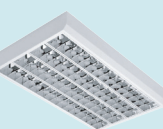
Emergency LED Bulkhead Lights



LED Emergency Twin Spot Light



Emergency UFO Lights



Emergency Conversion Kits for Fluorescent or LED Luminaires

Features



Wireless Technology

No access point required for installation



Standards-compliant

Testing & inspection are in reference to regulatory standards



Emergency Ready

Provides assurance of safe and continuous operations



Self-test Functionality

Checks all emergency lighting systems are fully operational



Cost-effective

Extends battery to prolong luminaire life



Automatic Tests Scheduling & Recording

Conducts auto scheduled tests & log procedures for all emergency lighting

Benefits



Ease of Installation

Requires no additional infrastructure and cabling into existing structures



Regular Checks & Periodic Servicing

Provides system diagnostics to schedule commissioning tests & customized intervals for functional and duration tests



Real-time Status Alerts

Conducts alert status for regulatory test, battery health state, charger health state, luminaire LED health state and LED indicator health state



Remote Access

Ability to remotely access and monitor from a centralised dashboard providing total visibility and control



Lower Maintenance & Labour Costs

Cost-effective than manual testing by reducing manpower labour allocation

ST Engineering is a global technology, defence and engineering group specialising in the aerospace, electronics, land systems and marine sectors. The Group employs about 22,000 people across offices in Asia, the Americas, Europe and the Middle East, serving customers in the defence, government and commercial segments in more than 100 countries. With more than 500 smart city projects across 70 cities in its track record, the Group continues to help transform cities through its suite of Smart Mobility, Smart Security and Smart Environment solutions. Headquartered in Singapore, ST Engineering reported revenue of \$6.7b in FY2018 and it ranks among the largest companies listed on the Singapore Exchange. It is a component stock of the FTSE Straits Times Index, MSCI Singapore, SGX ESG Transparency Index and SGX ESG Leaders Index.

The Electronics sector specializes in the design, development and delivery of Information and Communications Technology (ICT) products, solutions and services addressing the needs of Smart Cities for Connectivity, Mobility and Security. Its deep technological and engineering expertise straddles business domains in Rail & Road Engineering, Satellite Communications, Public Safety & Security, Cybersecurity, Artificial Intelligence, Training & Simulation, Managed Services and Defense C4ISR. It has presence in more than 30 global cities across North America, Latin America, Europe, Africa, the Middle East, China, India and Southeast Asia. For more information, please visit www.stengg.com.