



SpectoXT

THE SMART EMERGENCY SYSTEM

Philip Payne

The background is a solid green color with a large, faint, light-green 'X' shape overlaid on the right side. The 'X' is formed by two intersecting diagonal lines that create four triangular sections. The text 'INTRODUCTION' is positioned on the left side of the image, centered vertically.

INTRODUCTION

The SpectoXT Emergency system uses luminaires containing wireless transceivers.

In real time SpectoXT luminaires communicate the health status and routine test results to the SpectoXT Gateway and are uploaded onto the website.

This avoids the need for supplementary data cabling which is required for most Emergency Lighting monitoring systems. SpectoXT luminaires are wired the same as on any conventional emergency lighting installation.

Using a mesh networking principle luminaires can be commissioned using a hand held IR programming device set. Future extra requirements or changes in Emergency strategy can be added to the network quickly and simply.

The network operates at a frequency of 868/922 MHz segregating it from other wireless activity and with <1% data exchange rates the system is inert for the majority of time.

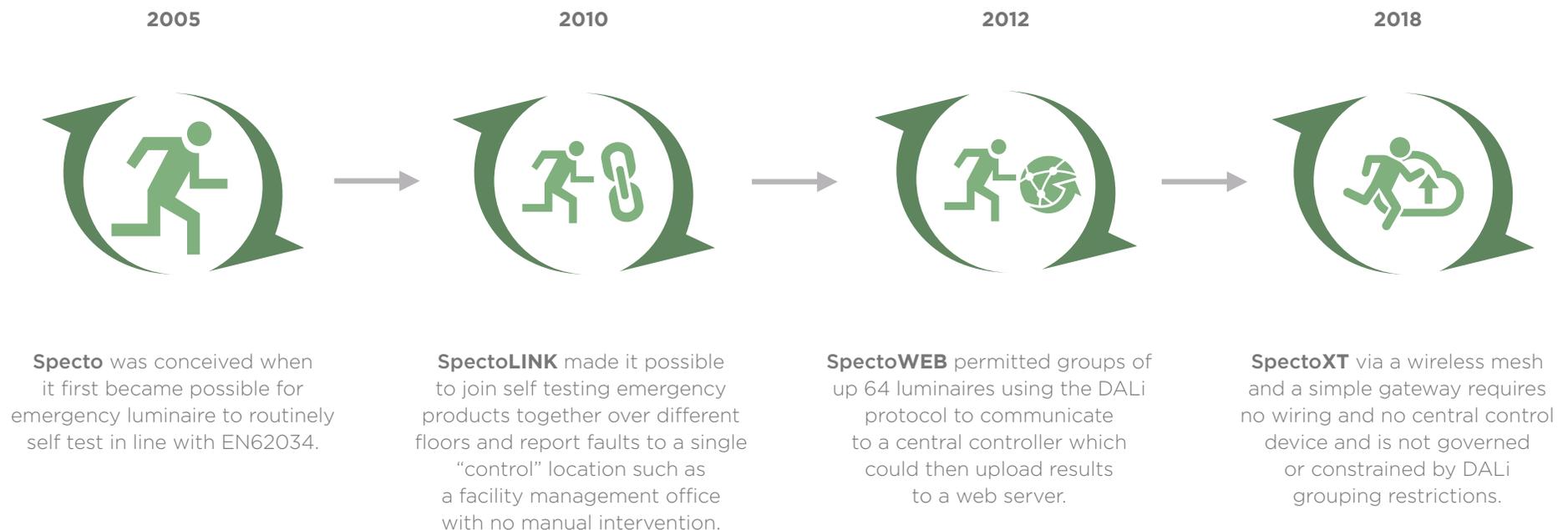
Test regimes and other user defined parameters can be programmed via the website and downloaded to the Gateway.

The web portal retains historic records (determined by local standards) and are displayed in graphical form and along with site documentation are accessible by client authorised users.

The full range of Philip Payne Products is available with SpectoXT functionality.

Specto - THE EVOLUTION

Philip Payne has a long and proud history of simplifying compliance to emergency standards for its clients and our systems have evolved with advances in technology.



WHAT ARE THE BENEFITS OF SpectoXT?

SYSTEM FLEXIBILITY



SpectoXT utilises a wireless mesh network. Each device acts as a repeater, ensuring that data signals always find a suitable communication path. Groups are easily created and changed providing future flexibility without altering wiring.

WIRELESS RELIABILITY



An operation frequency of 868MHz provides excellent transmission distances and better penetration of signals.

EFFICIENT COMMUNICATION



Intelligent algorithm with low transmission of data - transmits less than 1% of the total time (99% of the time wireless is off) - reduces wireless traffic increasing reliability.

INTELLIGENT CONNECTIVITY



Software uses simple wait before transmit logic to ensure error free transmissions.

REDUCED COSTS (INSTALLATION)



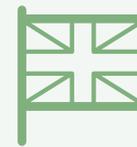
The SpectoXT gateway and compatible emergency luminaires simply require a mains connection. All communication cables are replaced by the mesh network so there is no need for data cables, additional power supplies or control modules.

SIMPLE AND FAST COMMISSIONING



Using a single robust hand held infra-red programmer all luminaire types can be very quickly and easily commissioned.

MADE IN THE UNITED KINGDOM



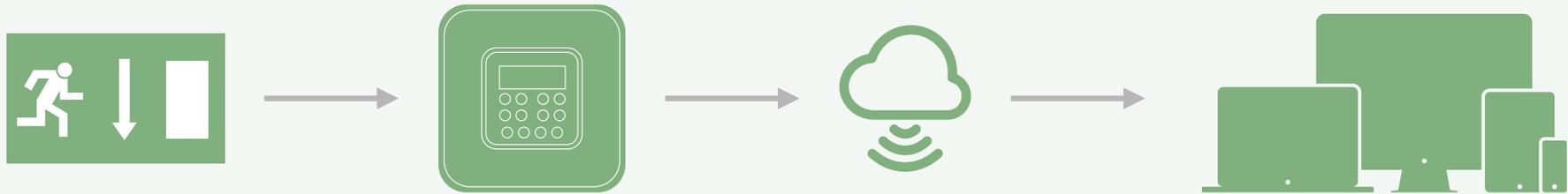
Customer assurance that the system and luminaires are fully compatible.

THE SpectoXT GATEWAY



The SpectoXT Gateway uses the mesh network to communicate with individual luminaires, sending out instructions such as emergency lighting automatic testing times. This transmits it to the World Wide Web for viewing using tablets, smart-phones, laptops and computers.

SpectoXT COMMUNICATION



- ✓ Fully Automated Emergency Lighting testing ensuring legal compliance.
- ✓ Eliminates labour intensive routine testing.
- ✓ Eliminates dependence on complex data cabled interfaces.
- ✓ Eliminates integrated Building Management Systems.
- ✓ Easy upgrade to fully compliant site.
- ✓ Simple point to point luminaire replacement.
- ✓ Eliminates data cabling for monitoring.
- ✓ Client controlled access to website.
- ✓ Test records and site information maintained in cloud.
- ✓ Viewable on your PC, Tablet or Smart Phone.

BUILDING ADDRESS



Identifies devices that are within the same system and forms the boundary for the wireless mesh network to prevent adjacent buildings communicating

GROUP ADDRESS



All luminaires with the same building address and the same group address will work together. Up to 254 different zones can be created in one building.

DEVICE ADDRESS



To provide unique identification, individual luminaires within each group can be given an address.

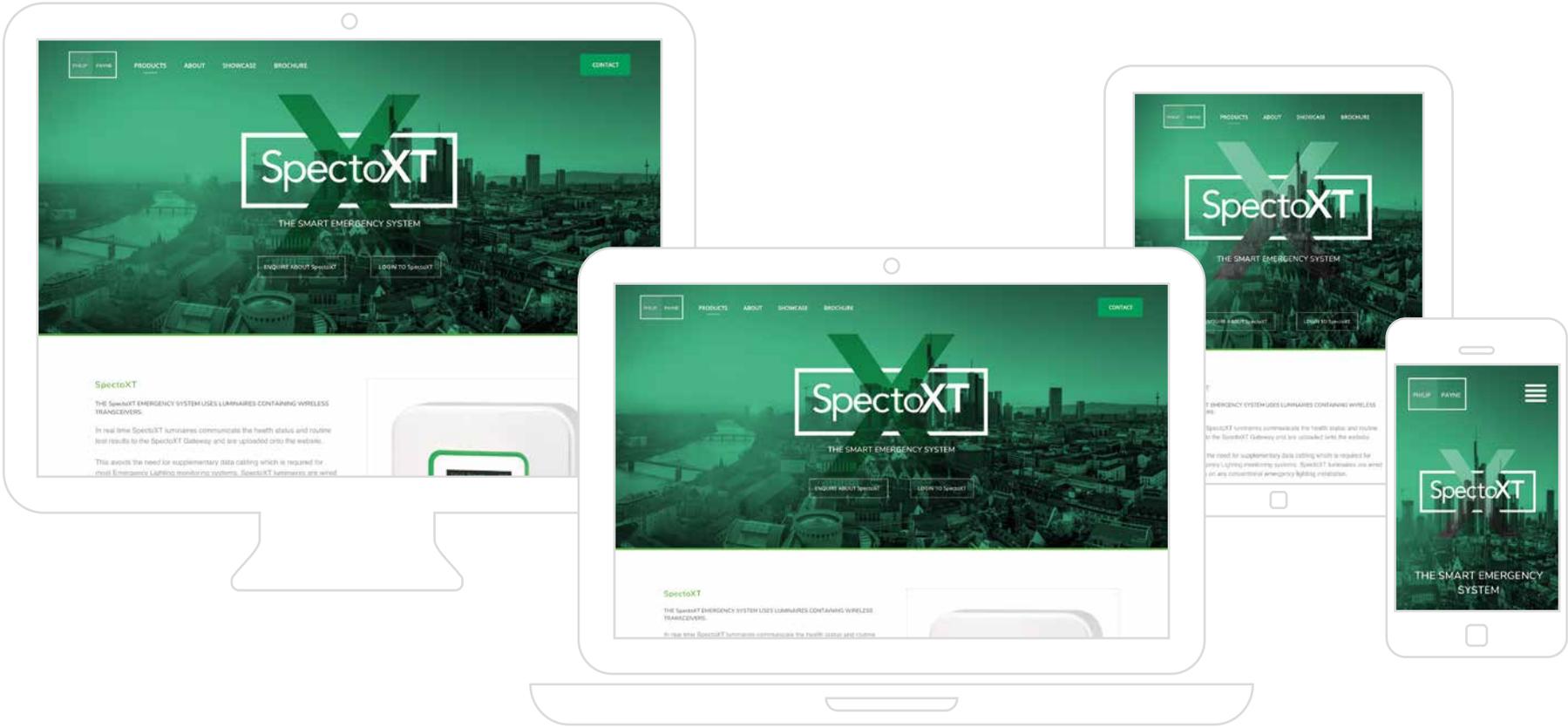
SpectoXT - FEATURES | ADVANTAGES | BENEFITS

FEATURES	ADVANTAGES	BENEFITS
Wireless communication with emergency luminaires	Cables do not need to be installed between luminaires	Simplifies installation, and reduces installation cost, particularly on retrofit installations Avoids having to open ceiling voids, especially important in older buildings and decorative environments
Emergency lighting status information is automatically uploaded to the website	Status information and test results are accessed remotely and records are stored for access at any time	Ensures compliance with testing and record keeping of emergency lighting, hugely reducing the associated ongoing costs for doing so on a manual test system
Frequency 868Mhz	Longer wavelength compared to commonly used 2.4GHz	Greater signal distance and better penetration through the building's structure
Mesh Network	Data is transmitted from device to device	Provides reliable, flexible signal path
Devices have a multi-level address structure (building, group, device addresses)	Flexibility of addressing	Groups are set up to match site layout, and may be changed at any time without modifying the installation
Devices can be added (or removed) from the network at any time	System can be easily extended, allowing simple phased installation	Flexibility and scalability
Emergency lighting test times are set up on the website	The user can select times outside of normal building usage, or times of minimal disruption	Greater control over test times, minimises the inconvenience of emergency lighting testing at inappropriate times
Individual username and password	Provides tailored access for every user	Provides security and ease of use
Group naming on the website	Groups can be given meaningful names	Groups can be easily identified by users familiar with the building

SpectoXT - FEATURES | ADVANTAGES | BENEFITS



SpectoXT WEBSITE



www.philppayne.co.uk/specto-xt

SETTINGS



Provides emergency lighting status information.
Controls emergency lighting testing dates/times.

USER FRIENDLY



The system is accessed using a web browser, there is no need for a specific App or piece of software.

REMOTE ACCESS



Records can be accessed remotely with a username and password.

OFF-SITE STORAGE



Emergency lighting testing records, "as fitted" drawings, commissioning certificates and all the essential emergency lighting documentation is stored remotely on the web server, but can be accessed by anyone who has a username and password.

EMERGENCY LUMINAIRES - ESSENTIAL



**Thorlux
Lighting**
powered by Thorlux

Philip Payne Essentials – Now complete with Wireless Capability

SpectoXT functionality is available in all product variants across our portfolio permitting clients choosing to benefit from the design and flexibility traditionally offered by Philip Payne to continue selecting and specifying their preferred product, whilst ensuring ease of installation and compliance benefits for their client base

- ✓ Working to ensure via product variation or bespoke work that aesthetic aspirations are met
- ✓ Direct dialogue with building designers ensures aesthetic and mounting issues are resolved
- ✓ Wide Palette of finishes
- ✓ Developed and supported in partnership with our sister company Thorlux Lighting

EMERGENCY LUMINAIRES - SELECTION



ARCHITECTURAL



MINI CYLINDER



MINI CF



CLASSIC CYLINDER



SUPER 7



CLASSIC SEVEN



B7



ARCA



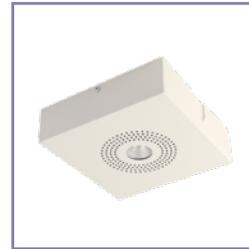
1880



MF100



TYKE



SPRITE



UNI & 2NI



LANTIS

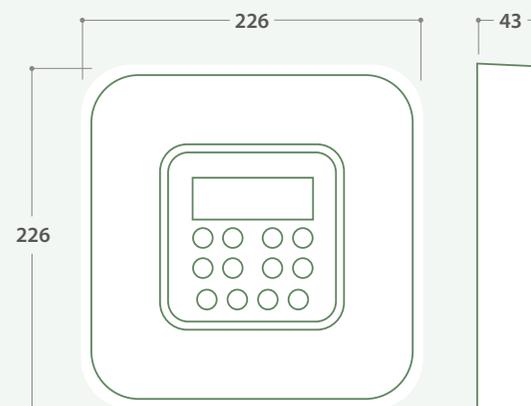


EXPOST

SpectoXT GATEWAY



MASTER CONTROL AND WEB INTERFACE
WITH SpectoXT WIRELESS COMMUNICATION



Specification

- Central control for up to 500 emergency luminaires*
- Central control for multiple groups
- Communicates with the SpectoXT website using GSM mobile telecommunications
- Test times/data set up using the SpectoXT website

*Extra gateways can be fitted to accommodate more luminaires

Part Number

SXT350

SpectoXT PROGRAMMER



Specification

- Used for commissioning
- Built in laser commissioning aid
- Ruggedised hand held programmer with infrared feature
- Permits remote setting of operational parameters

Part Number

PRG400

CONTROL AND PROGRAMMING
OF LUMINAIRES





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