

### Introduction to Routefinder Wireless

The Routefinder Wireless system allows for a simple installation of a wireless 2.4GHz RF integrated module within the luminaire during manufacture. Our CG/EWMODULE is available for integration with third party luminaires. Integration within the luminaires allows a simple, low risk, easy to design emergency lighting test system.

Routefinder Wireless is a standalone emergency lighting test system providing testing and reporting to BS EN 62034 via a wireless 2.4GHz RF Mesh. The system's simplicity means that the user can be assured that the emergency lighting installation is being routinely tested and monitored in accordance with BS EN 50172.

Each Routefinder Wireless panel is capable of wireless connection of upto 128 devices via the wireless 2.4GHz RF Mesh. Please be mindful when positioning the panel so that it can communicate with multiple luminaires to avoid a single point of failure. To ensure reliable transmission of the wireless mesh we recommend a maximum distance of 15 metres between emergency modules. Please note: The building's construction materials can vary transmission distances.

For larger installations, our complimentary software will be deployed onto a client's PC to provide a fully scalable system. Once commissioned, the Routefinder Wireless system will carry out function tests and duration tests automatically on scheduled dates and times. In the event of a failure during a test, or if a battery or charger problem occurs, the screen will automatically come on with a warning triangle and, if selected during the commissioning process, the integral warning buzzer will also sound. Alternatively for a software enabled system, this can be configured to automatically notify a maintenance engineer via email of both the nature and location of any faults. These detailed system reports allow for a strategy of planned maintenance to be implemented.

### Routefinder Wireless Features

- IoT Smart EL test system
- Integral mains supply and 2.4GHz RF antennae
- Two 2.4GHz RF Mesh networks (2 x 64 devices)
- Routine function and duration tests
- Detailed test results at panel
- Downloadable test data
- Operates with multiple durations (60 mins, 90 mins, 180 mins etc)
- Automatic fault indication
- Fault buzzer (software enabled)
- IP addressable panel
- Monitor and control up to 50 panels
- Complies with EN 61347-2-11
- Complies with EN 62386 DALI WiFi standard
- Encrypted networking (ECDHE-ECDSA-AES256)
- Automatic addressing of replacement gear
- Automatic fault indication to maintenance partner (optional)
- Surface or recessed mounting
- Commissioning made simple using Android App on portable smart device
- CG/EWMODULE available which converts a DALI emergency luminaire into a wireless mesh enabled luminaire

### Routefinder Wireless Optional Features

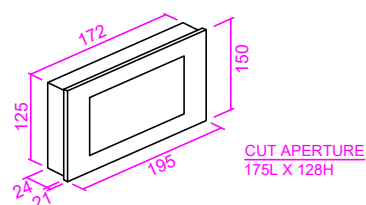
- Password protected active functions
- Commissioning data can be entered via the touch screen, a USB dongle or the software
- Devices can be addressed individually, by 'Network' or by 'Group'
- Routefinder Wireless will automatically find replacement devices during maintenance
- Automatic status notifications are logged in Routefinder Wireless's non-volatile memory and can be downloaded by USB or the software
- Routefinder Wireless is IoT-ready

### Ethernet Network

Ethernet Cable: 1 x RJ45 10/100Mbps, Cat 5e up to 100m (Audio MDI/MDI-X Crossover). All equipment, wiring and connections are the responsibility of the customer. Please note that the Ethernet Network is to be supplied and installed by others.

**Note** If the customers' ethernet network is not dedicated to the Routefinder Wireless system then static IP addresses will need to be issued to Whitecroft prior to the commissioning of the controls installation. One Static IP address will be required for each RFD PANEL-EW. Please liaise with Whitecroft Commissioning Department for confirmation of the number of Static IP addresses required.

### Routefinder Wireless Panel Specification

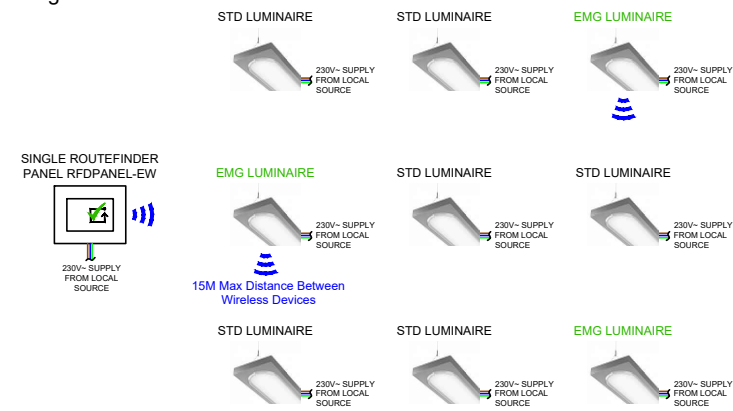


### Routefinder Technical Data

- Rated Voltage and Frequency: 230v @ 50/60Hz
- Temperature Range: 0°C to +40°C
- Touch Screen: Resistive
- LCD: 7" @ 800 x 480, 64K
- DALI: Single master supporting 2 self-powered bus (short circuit protected)
- Supported DALI Accessory: Self-contained emergency luminaire (Device Type 1 as per IEC 62386-202)
- Memory Capacity: 10 Years
- Power Rating: 5.1W Nominal, 16.4W Peak
- Weight: 560g
- Dimensions (H x W x D): 150 x 195 x 45mm
- Ethernet Cable: 1 x RJ45 10/100Mbps, Cat 5e up to 100m. All equipment, wiring and connections are the responsibility of the customer

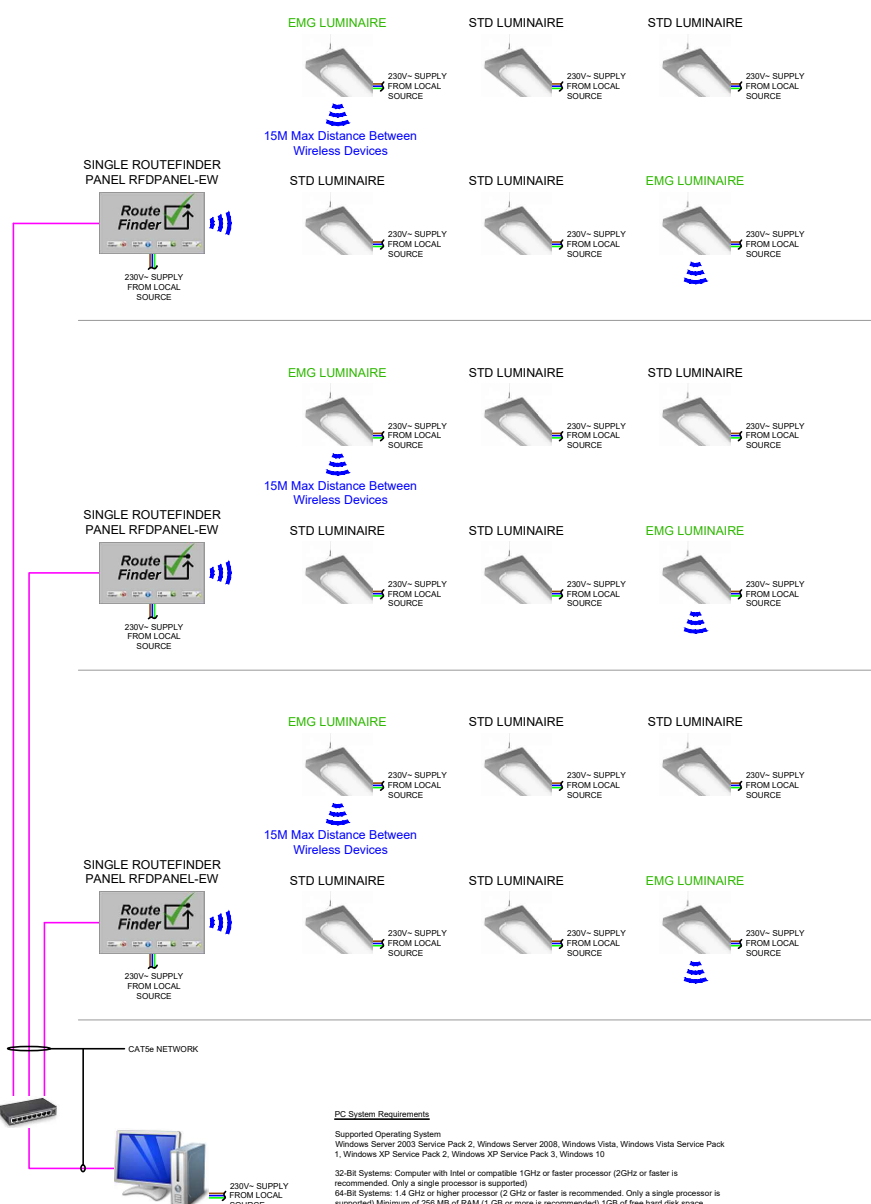
### Typical Smaller Installations

A single RouteFinder Wireless panel monitoring dedicated emergency luminaires and exit signs.



### Typical Larger Networked Installations

Up to 50 RouteFinder Wireless panels can be connected using a CAT5 network.



## Routefinder Wireless Wiring Application Notes

### Rev 05: 07/11/2023

**Note** - All information detailed in this document is not project specific, and is provided as a typical example only. Whitecroft Lighting reserve the right to make changes to Equipment and Specification as required. It is the customers responsibility to verify the required specification on a project by project basis.

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Whitecroft Lighting Ltd  
Burlington Street  
Ashton - under - Lyne  
Lancashire  
OL7 0AX  
United Kingdom

technical@whitecroflight.com  
email@whitecroflight.com  
www.whitecroflighting.com

**Whitecroft**  
lighting

Telephone: +44 (0)161 330 6811