

After Power ON, the Status LED on a Clevertest Plus enabled fitting will display a rapid Green or Red flashing for a period up to 2 minutes.

**Zoneworks HIVE Monitored Options**

Fittings with part numbers -HVG are fitted with Zoneworks HIVE communications modules (nodes). These fittings are monitored using RF transceiver modules operating in the ISM band connected to a central Server (can also be connected via Ethernet/Internet/Fibre). Zoneworks software on the server is used to monitor, coordinate testing and collate test data from each fitting. Zoneworks HIVE Fittings can be commissioned by scanning the supplied barcode. The LED indicator provides a multifunction indication of the status of the fitting during testing and normal operation:

Option	State	LED Operation
HVG	Commissioned	LED on Solid (Green)
HVG	Un-commissioned With network connectivity	<b>Batt plugged-in:</b> yellow 1s, green 1s
		<b>Batt unplugged:</b> red 1s, off 1s
HVG	Un-commissioned Without network connectivity	<b>Batt plugged-in:</b> yellow 250mS, green 250mS, yellow 250mS, green 250mS, green 1s
		<b>Batt unplugged:</b> red 250mS, off 250mS, red 250mS, off 250mS, off 1s
HVG	Emergency Light Test In Progress	LED flashes at yellow 1s , Off 1s

For further information of installation of a Zoneworks system, please refer to the Zoneworks Users Guide and Commissioning Guide.

**DALI EM Option**

Luminaires with part numbers having -DALI are fitted with DALI modules (nodes) that facilitate connection and integration to 3rd Party Lighting Control Systems. Before installing the -DALI fitting please confirm that the Lighting Control System has the capability to monitor DALI Emergency Luminaires. The -DALI fitting will be addressed and configured into the control system by the Lighting Control System Commissioning Technicians and not Clevertronics

State	LED Operation
Commissioned/ Un-commissioned	LED on Solid (Green)
Emergency Light Test in progress	LED flashes at 1s On (Yellow) & 1s Off
“IDENTIFY COMMAND”	Lamp and Status LED Flash for 30 seconds

A 2-way “figure 8” cable and terminal block facilitates the connection to the DALI network OR a 5/6way “structured wiring system” lead and plug facilitating the power and DALI connection. DALI connections are marked as Da Da.

**Note:**

This luminaire (with reinforced insulation between control/LED terminal and AC supply) contains non-user replaceable light source and battery - to be replaced (if required, refer installation instructions for battery replacement) by Clevertronics service personnel/agents or a registered electrician.

**Warranty:**

For Product Warranty information and Terms and Conditions of Sales please refer to our website <https://clevertronics.co.uk/product-warranty-statement/>



**FORM 20m Exit  
Installation & Maintenance Instruction Leaflet**



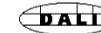
NOTE: Standard product codes with this symbol  are enabled with Clevertest Plus capability. Please refer to the operation guide supplied with the product for details.



**Models:** FORM-20-REC-CM-CS-REM-L10-xx

**Testing:**

- Manual Test xx = Blank
- Zoneworks HIVE xx = HVG
- DALI Registered. xx = DALI



**Spare Parts:**

- 1530031 Replacement Battery
- UKM01370300001 Replacement Emergency Driver

**Important:**

It is illegal for anyone, except for a licensed electrician to install or maintain this product. Before installation, ensure that the electricity supply has been switched off and isolated. Installation must be carried out in accordance with the relevant British Standards.

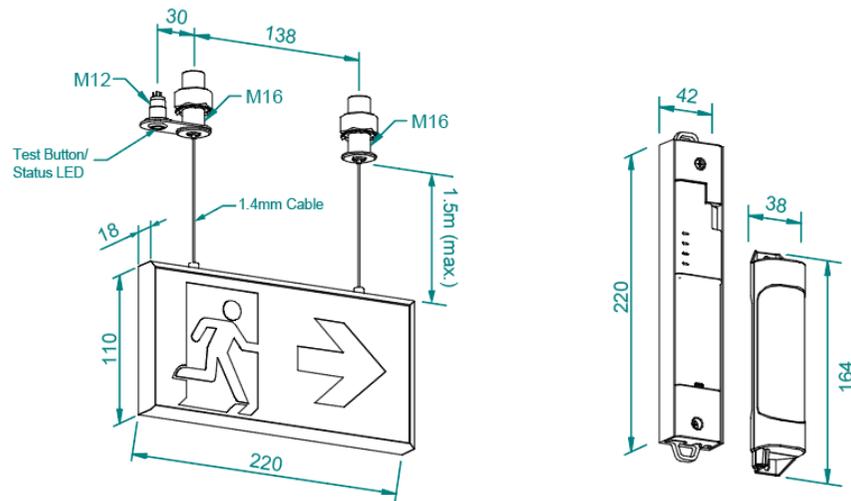
**Caution**

On many building sites, power circuits may be cut off in an uncontrolled and repetitive basis during construction. As a result, any Exit & Emergency Units, on these circuits, will have their batteries discharged or “cycled”. The Li-ion battery in the Exit & Emergency Unit has been selected to give excellent long life performance in a controlled IEC 60598-2-22 testing environment. Excessive battery cycling will reduce through-life performance and may lead to premature battery failure. Battery warranty claims, as a result of such abuse, are specifically EXCLUDED from Clevertronics warranty terms.

**Dimensions:**

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## Installation:

Please follow the below steps to install the product correctly:

- Create 3 x 17mm holes in the mounting surface (see above image for hole spacings)
- Attach M16 Threaded Sleeves into holes and tighten with Nut/Washer provided
- Measure and cut cable to length and insert cable into the cable clamping mechanism inside the M16 Threaded Sleeves (press button on mechanism to adjust as required)
- Strip Cable and Terminate into In-Line connectors
- Ensure correct decal is installed into product, if not, slide out default decal and replace with correct version
- Install Remote Hardware (Driver and Battery) inside ceiling as required
- Connect Driver Loom to Test Button/Status LED
- Remove Cable Clamp from 240V end of the Driver to access Mains Connector
- Terminate mains power cable, 240V 50Hz, to Driver terminals marked L, N & ⚡ (for DALI terminate into the terminal block provided, marked DA DA)
- Re-attach the Cable Clamp (ensure all wires are located and secured)
- If the CTP capabilities are activated, please affix the CTP status label to a visible surface and Four Segment Marking on the product will include an "F" in third segment block.
- If the external flexible cable or cord of this luminaire is damaged, it shall be exclusively replaced by the manufacturer or his service agent or a similar qualified person to avoid a hazard.

## Battery Replacement:

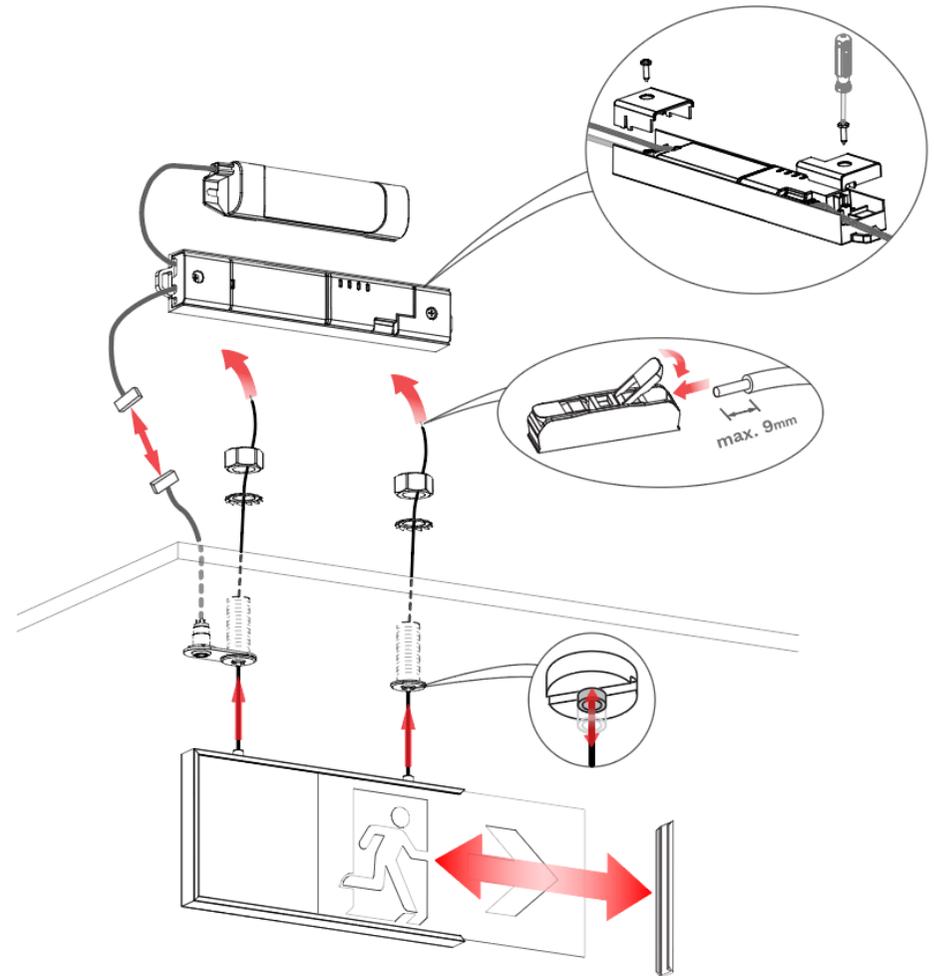
1. Prior to any work, isolate the power to the luminaire that requires battery replacement
2. Remove Cable Clamp from the Emergency end of the Driver, and disconnect battery
3. Replace battery and re-connect into driver
4. Re-attach the Cable Clamp (ensure all wires are located and secured)

## Testing Procedure:

When the unit is connected to the un-switched active, it must be allowed to charge the battery for at least 24 hours. The Exit Lamps illuminate in normal conditions as well as during power fail. Conduct the following tests:

- The Exit Lamps must illuminate for at least 180 min after disconnection from the mains. If the unit fails to illuminate for the requisite time, remedial action must be taken to repair the situation and once completed, the unit must pass a subsequent test.
- Press and hold Test Button or switch Off Mains Supply, check that the Exit Lamps is **ON**.
- Release the Test Button or switch On Mains Supply, check that the Exit Lamps are **ON**.

## Installation/Maintenance Images:



## Trouble Shooting:

Below are a list of common problems and their possible causes.

**Fault: The Green LED Test Switch indicator is not illuminated.**

Check: A.C. is connected and is turned on.  
Battery is connected  
Test Switch for damage.  
Blade loom is connected to Driver correctly

**Fault: Lamp(s) does not illuminate in emergency mode.**

Check: A.C. is connected.  
Lamp is correctly inserted.  
Battery is connected

**Fault: Lamp(s) illuminates in emergency mode, but only stays on for a short period.**

Check: Battery has been allowed to charge for at least 24 hours.  
Battery for damage.