Clevertest Plus

Refer to the supplementary operation guide supplied with the Product.

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.
The diffuser will require removal to gain access to the Test/Status Switch and LED.
Maintained fittings ((LVP4LED**M**-P-xx-yy)) cannot be scanned with a camera using the Clevertest Plus App as the maintained light source interferes with the camera scanning function. To register the fitting manually enter the serial number from the QR code and visually read the test result and enter manually into Clevertest Plus App.

Zoneworks, HIVE and DATA Monitored Options

Fittings with part numbers -ZW, -HVG, -DATA are fitted with Zoneworks communications modules (nodes). These fittings are monitored using either Powerline Carrier Technology that utilize the power cable to provide data communication, RF transceiver modules operating in the ISM band or a dedicated data cable to/from data routers installed on a dedicated data trunk 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 Fittings can be commissioned by a single push of the test switch or by scanning the supplied barcode. The LED Test Switch indicator provides a multifunction indication of the status of the fitting during testing and normal operation:

Option	State	LED Operation
ZW, HVG, DATA	Commissioned	LED on Solid (Green)
ZW, DATA	Un-commissioned	**Batt plugged-in:** yellow 1s, green 1s
		Batt unplugged: red 1s, off 1s
HVG	Un-commissioned With network connectivity	**Batt plugged-in:** yellow 1s, green 1s
		Batt unplugged: red 1s, off 1s
HVG	Un-commissioned Without network connectivity	**Batt plugged-in:** yellow 250mS, green 250mS, yellow 250mS, green 250mS, green 1s
		Batt unplugged: red 250mS, off 250mS, red 250mS,off 250mS, off 1s
ZW, DATA	Emergency Light Test In Progress	LED flashes at yellow 5s , 0ff 1s
HVG	Emergency Light Test In Progress	LED flashes at yellow 1s , 0ff 1s

In the case of the DATA version a 2-way “figure 8” cable and terminal block facilitates the connection to the DATA network via a multi-drop bus (daisy chain connection). For further information of installation of a Zoneworks system, please refer to the Zoneworks Users Guide and Commissioning Guide (incl. DATA version)

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.

L10™ 4ft LED Weatherproof Vandal Resistant Batten

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.

Australia (Head Office)
Website: www.clevertronics.com.au
Email: info@clevertronics.com.au
Phone: +61 3 9559 2700

UK OFFICE
Website: www.clevertronics.co.uk
Email: uksales@clevertronics.co.uk
Phone: +44 0 1895 430 255

Models: LVP4LEDz-P-uu-xx-yy-ww

Testing:		Options:	
Manual Test	xx = Blank	Maintained Operation	z = M
Zoneworks	xx = ZW	Non-maintained Operation	z = N
Z/W DATA	xx = DATA	Dali Driver	uu = DD
Zoneworks HIVE	xx = HVG	4HR Battery	yy =4HR
DALI Registered.	xx = DALI	Low Smoke Zero Halogen 1.5m Flex Cable with Wieland Plug	ww = LSZH-FPW1M5
		Low Smoke Zero Halogen 8m Cable no Plug	ww = LSZH-NP4C8M
		Special Cable	ww = Customized Code

Spare Parts:

1530260	Replacement Battery
8002699	Replacement Emergency LED Board
LCPLED-2.4W-CKIT-HBL	Replacement Emergency Driver
1330055	Replacement 240V Driver
1330056	Replacement 240V Driver **(-DD only)**

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.

1942219 V1.1 10 January 2024

Installation:

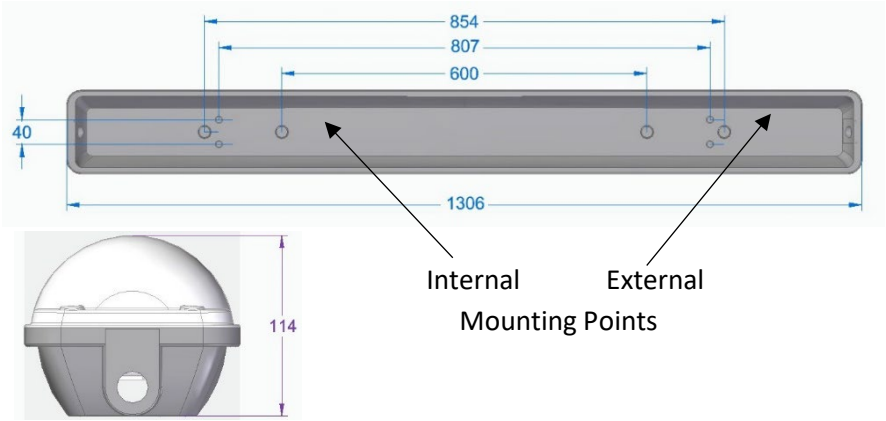
The Vandal Proof Batten (LVPLEDM-P) is a surface mount fitting.

The batten can be attached directly to any solid surface by drilling the base internal mounts as required. Refer to the Dimensions Section for mounting points.

The batten can also be mounted to Unistrut utilizing the four (4) recessed screw holes on the back of the case. Refer to Dimensions section.

1. Remove the diffuser and gear tray. Position the batten base in the desired location.
2. Mark out the fixing points on the mounting surface.
3. Fasten the batten to the surface, using appropriate fixing method.
4. Route power cable through the access hole. Use the conduit entry point at the end or drill a suitable entry hole in the rear of the batten body (must be suitably sealed after cable entry).
5. Attach gear tray to lanyards.
6. Wire mains power cable, 240V 50Hz, to terminals marked Lsw, Lem, N & ⏚
7. Fit gear tray and diffuser.
   Recommended torque setting for the diffuser screws - 140-145Ncm.
8. 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.

Dimensions:



Sealing:

When drilling through the fitting base, a suitable silicone sealant must be applied to maintain the IP rating. Always use a sealant that remains flexible. Apply enough sealant so that the material oozes out completely around the washer when the bolt or screw is tightened.

Always use a gland or screwed conduit adapter. With conduit ensure that the other end of the conduit is not left open. Even if it is inside the building, it allows water vapor and insects to enter the fitting. A rubber washer and silicone sealant should also be used between the fitting body and the conduit nut inside the fitting to guarantee a water-tight seal. Use PVC cement to seal all conduit joints. Glands are intended for round cable and will not seal against TPS. Even when properly installed using round cable, sealant may be necessary in extreme weather exposure.

Battery Replacement:

1. Prior to any work, isolate power to any Batten that requires battery replacement
2. Open the Diffuser by removing the tamperproof screws.
3. Remove Gear tray by loosening tamperproof screws and sliding sideways.
4. Remove Battery connector from the Emergency Driver.
5. Open the Battery Pod by removing the tamperproof screws.
6. Remove Battery Holder and remove battery from holder by cutting cable ties.
7. Replace Battery onto holder and secure with cable ties. Carefully route the battery cable back through pod into batten.
8. Secure the Battery holder in the pod.
9. Reassembly product in reverse order.

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 emergency lamp only illuminates during a power fail. Conduct the following tests:

- The emergency lamp 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 emergency lamp is On.
- Release the Test Button or Switch On Mains Supply, check that the emergency lamp is Off (Non-maintained operation).

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.

Fault: **Lamp does not illuminate in emergency mode.**
Check: A.C. is connected.
Lamp is correctly inserted.
Battery is connected

Fault: **Lamp 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.

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.

Warranty:

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