

Clevertest and Clevertest Plus

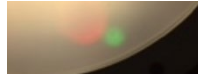
Refer to the supplementary operation guide supplied with the Product.

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.

Note: To scan the Status LED on the luminaire, the diffuser will require removal.

Status LED Note:

The Status LED is High Brightness and may appear as two separate spots as illustrated. If Red and Green are seen at the same time, this needs to be taken as Yellow in the Clevertest Plus operation guide.



Zoneworks, HIVE and DATA Monitored Options

Fittings with part numbers -ZW, -HV/-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, HV, HVG, DATA	Commissioned	LED on Solid (Green)
ZW, DATA	Un-commissioned	Batt plugged-in: yellow 1s, green 1s
		Batt unplugged: red 1s, off 1s
HV, HVG	Un-commissioned With network connectivity	Batt plugged-in: yellow 1s, green 1s
		Batt unplugged: red 1s, off 1s
HV, 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 , Off 1s
HV, HVG	Emergency Light Test In Progress	LED flashes at yellow 1s , Off 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 luminaire please confirm that the Lighting Control System has the capability to monitor DALI Emergency Luminaires. The -DALI luminaire 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 (red & green) & 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.



LP™ Circular Emergency Light Installation & Maintenance Instruction Leaflet



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Designed in Australia to comply with the requirements of AS/NZS 2293.3 2018 and AS/NZS CISPR15: 2017

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:

Testing:

Manual Test xx = Blank

Zoneworks xx = ZW

Z/W DATA xx = DATA

DALI Registered. xx = DALI

Hive xx = HV/HVG

CCIRC-yy-xx

Options:

DALI Driver yy = DD

Hi/Lo Control through yy = MS-HL

Microwave Sensor



Spare Parts:

1550010	Replacement Battery	
8011800	Replacement Emergency LED	
1330091	Replacement 240V Driver	
AUM02870500001	Replacement Emergency Driver	(-HV)
AUM02370470001	Replacement Emergency Driver	
AUM02970150001	Replacement Emergency Driver	(-HVG)

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 Australian and International Standards.

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/lamp replacement) by Clevertronics service personnel/agents or a registered electrician.

Installation:

The Circular can be installed in either a ceiling mounted or wall mounted configuration.

- Remove the diffuser by rotating it counter-clockwise.
- Remove the gear-tray by loosening the 3 screws holding it in place and then slightly rotating the gear-tray clockwise to release it from the keyhole slots.
- The power cable entry to the luminaire is via the rear surface of the base through the existing 20mm hole. Ensure appropriate cable entry provisions are made on the installation surface for this purpose.
- The base of the luminaire can be mounted to the installation surface with the use of suitable fasteners (Not provided). These fasteners should be placed through the mounting feet of the base of the luminaire.
- Route the power cable into the base via the existing 20mm hole at the rear of the base during the installation of the base.
- Secure the gear-tray to the base by connecting the lanyard extending from the base to the gear-tray.
- Connect the 240VAC (N, A_{EM}, A_{SW}, Earth) supply to the terminal block of the gear tray. (For DALI or DATA luminaires, terminate the additional wires to the appropriately marked terminals.)
- Secure the gear-tray to the base via the keyhole slots on the gear-tray and by tightening the 3 screws.
- Fit the diffuser to the base by placing the diffuser over the base and then rotating it clockwise, ensuring all the slide-lock points are engaged.
- Apply power to the luminaire and test as per the instructions.
- If the CTP capabilities are activated, please affix the CTP status label to a visible surface and update the Four Segment Marking on the product to include a "F" in third segment block.

Dimensions:

Complete luminaire outer dimensions: **327mm (Diameter) x 100mm (Max Height)**
Base Diameter: **272mm**



Rated Emergency Lumen Output in accordance with AS/NZS 2293.1 (refer to spacing tables for installation positions): Refer to the Technical Label for classification information.

Warranty:

For Product Warranty information and Terms and Conditions of Sales please refer to our website <http://clevertronics.com.au/terms-conditions-sale-australia-nz/>

Testing:

Once connected to the 240V mains supply, the luminaire must be allowed to charge the battery for at least 24 hours. Conduct the following tests:

- For the first test, the emergency lamp must remain illuminated for at least 2 hours (4 hours for - 4HR luminaires) after disconnection from the mains supply.
- Subsequent tests require the luminaire to illuminate for at least 90 minutes. The results of all tests are required to be recorded in a service logbook, which is to be kept on-site at all times. If the luminaire fails to remain illuminated for the requisite time, remedial action must be taken to repair the situation and once completed, the luminaire must pass a subsequent test. For more specific information, please refer to the current edition of the AS/NZS 2293.3 Standard.

Maintenance

Use only the Lamp or Battery recommended on the technical label inside the Circular.

Prior to any work, isolate the power to the luminaire that requires Lamp or Battery replacement.

Lamp Replacement:

- Remove the diffuser by rotating it counter-clockwise to access the lamp module. If the battery continues to power the LED Module, then remove the gear-tray by loosening the 3 screws holding it in place and then slightly rotating the gear-tray clockwise to release it from the keyhole slots. Disconnect the battery connector from the Emergency Driver. Then refit the gear-tray to the base.
- Gently push into the top of the wiring terminals and pull out the wires from the LED Module.
- Un-do the 4 Philips head screws to disengage the LED module from the gear-tray.
- Fit the new LED Module to the gear-tray by following the above process in reverse. Ensure the battery connector is refitted, if it was removed during the lamp replacement process.

Maintenance - Battery Replacement:

- Obtain access to the rear side of the gear-tray by removing the diffuser by rotating it counter-clockwise; Then remove the gear-tray by loosening the 3 screws holding it in place and then slightly rotating the gear-tray clockwise to release it from the keyhole slots.
- Disconnect the battery connector from the Emergency Driver.
- Un-do the 2 Philips head screws to remove the battery and then replace it with the new battery, ensuring that the tooth-washers are re-used.
- Fit the battery connector to the Emergency Driver.
- Refit the gear-tray and diffuser by following the above process in reverse.

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 Luminaires on these circuits will have their batteries discharged or "cycled". The battery in this luminaire has been selected to give excellent long-life performance in a controlled AS/NZS 2293.1 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.