Clevertest and Clevertest Plus

Refer to the supplementary operation guide supplied with the Product.

Zoneworks, HIVE (HV/HVG) 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 , 0ff 1s
HV, 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 2 EM Option

Luminaires with part numbers having -D2 are fitted with DALI modules (nodes) that facilitate connection and integration to 3rd Party Lighting Control Systems. Before installing the -D2I luminaire, please confirm that the Lighting Control System has the capability to monitor DALI Emergency Luminaires. The -D2 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. DALI connections are marked as Da Da.

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 battery in this fitting has been selected to give excellent long-life performance in a controlled AS2293 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.

Rated Emergency Lumen Output in accordance with AS2293.1 (refer to spacing tables for installation positions):

Refer to the Technical Label for classification information.

Argonaut PLUS Weatherproof Emergency LED Batten

Installation & Maintenance Instruction Leaflet



3000K 4000K 5700K

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Models:

ARGOPLUS-1200-xx-yy-zz-uu-tt

Testing:		**Options:**	
Manual Test	xx = Blank	Sensor (HI/LO)	xx = SEN
DALI 2	xx = D2	DALI Driver	xx = DD
Zoneworks	xx = ZW	L10 Battery	yy = L10
Zoneworks HIVE	xx = HV/HVG	Emergency POD	yy = L10POD
		HV/HVG Combined Control	tt = CC

Spare Parts:

1530050	Replacement Battery (-L10POD)
1530230	Replacement Battery (-L10)
805-00123	Replacement LED Board
133-00012	Replacement 240V Driver
133-00017	Replacement 240V Driver (SEN version only)
1330151	Replacement 240V Driver (DD version only)
AUM01370120001	Replacement Emergency Driver
AUN00000000701	LED Driver (CC version 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 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 replacement) by the manufacturer or his service agent or a similar qualified person.

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/

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Installation:

IK10 impact rating is achieved only when the luminaire is directly surface mounted using fixing screws. Installation via mounting brackets does not achieve IK10 and is limited to a reduced impact rating IK06. The product can be mounted/suspended from any solid surface. Follow the below installation steps:

- Determine the installation and power entry method.
- Undo the Diffuser Clips, remove the Diffuser together with Gear Tray. Disconnect the terminal block and test switch connector from Gear tray. Position the batten base in the desired location and Mark out the fixing points on the mounting surface.
- If the cable entry is to be via the rear of the body – Drill out a suitable entry-hole in the rear of the batten body (must be suitably sealed after cable entry using a sealant). If the cable entry is via the end of the batten - Install the provided cable gland, or bring in conduit, to the base as required for the intended power access.
  Note: Only round cables are to be used with the cable gland for an IP66 seal. Keep cable entry straight and tension free. Ensure all seals are tight.
  min. wire diameter 7mm, max. 12mm.
- **For surface mounting -**, there are 3 extrusions/posts at each end of the base. Drill out the desired number of fixing points at each end. **Fixings must only be through the extrusions/mounting posts.**
  - Position the fitting to the mounting surface and mark the mounting holes.
  - Cable/Gland entry to be down if mounting vertically.
  - Drill the mounting holes.
  - Fix the base to the surface with appropriate fixings.
  - Seal any penetrations/fixing points with appropriate sealant.
- **For Surface Mount Clip mounting,** measure/mark spacing (see Dimensions image), install stainless steel clips to surface (use appropriate fixings), then snap batten into clips.
- **For Suspension Mounting,** measure/mark spacing (see Dimensions image), install suspension device, E.G chain, and connect chain to batten base.
- Wire mains power cable, 240V 50Hz, to terminals marked Lsw (Switched Active), Lem (Emergency/Unswitched Active), N & ⏚ (and DALI Cables to terminals Da Da as applicable)
- Hold the Diffuser Gear Tray assembly and attach its lanyards to the base. Connect the Loom from terminal block to the gear tray.
- Connect Test switch loom
- Set Colour Switch to the desired colour to 3000K / 4000K / 5700K (factory default 4000K)
- Reinstall the Diffuser/Gear Tray assembly to the base and latch the diffuser Clips.
- To maintain the integrity of the Batten please make sure to install the supplied screws into the diffuser clips(a minimum of 2 per side is recommended)

Wiring:

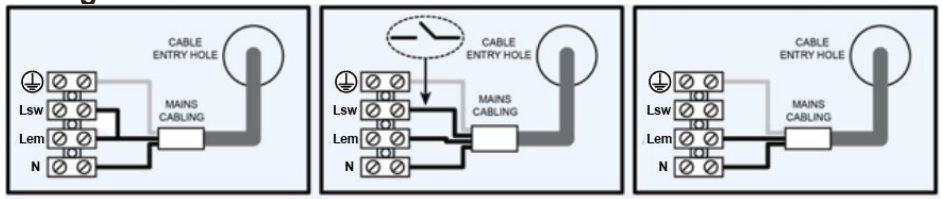
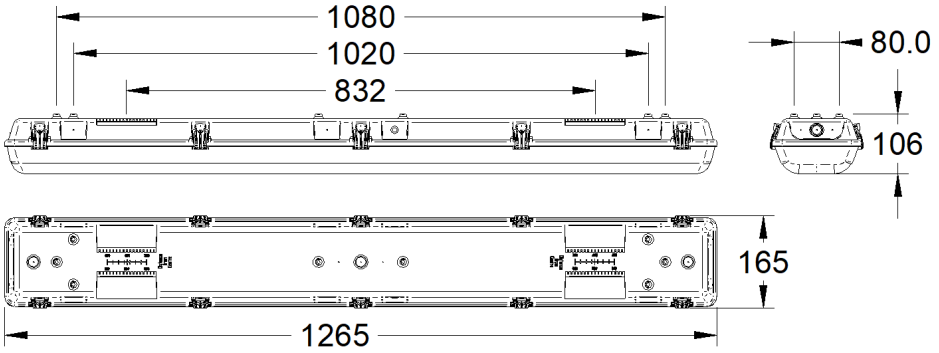


Figure A
Permanently on, 24hr operation. The switched active and un-switched active connections are bridged ensuring the battery charger and general lighting LED driver is permanently energised.

Figure B
Switched operation of the general lighting LED driver. The switched active is wired separately via a switch to provide on/off control of the general lighting. The un-switched active supplying battery charger is permanently energised.*
**The switched and un-switched active should originate from the same circuit breaker or RCD.*

Figure C
Non-maintained operation. The switched active is not connected and the general lighting LED driver will be off (permanently). The un-switched active supplying battery charger is permanently energised.

Dimensions:



Driver Setting:

For non-SEN-DD Products

	1	2	3
2549lm (350mA)	--	--	--
4420lm (650mA)	ON	ON	--

For -DD products

	1	2	3	4	5
2549lm (350mA)	-	-	-	-	-
4420lm (650mA)	-	ON	ON	-	-

Colour Setting:



3000K 4000K 5700K

Recommended currents are 350mA & 650mA for this product. Using settings outside of the recommended will void warranty.

Testing:

Once connected to the 240V mains supply, the unit 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 after disconnection from the mains supply.
- Subsequent tests require the unit 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 unit fails to remain illuminated for the requisite time, remedial action must be taken to repair the situation and once completed, the unit must pass a subsequent test. For more specific information, please refer to the current edition of the AS 2293.3 Standard.
- 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.
Test Switch not connected

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.