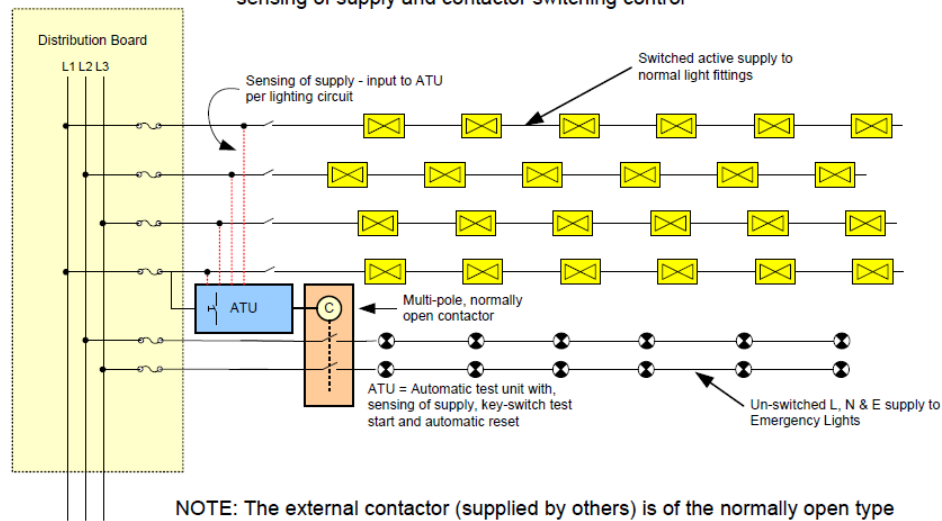


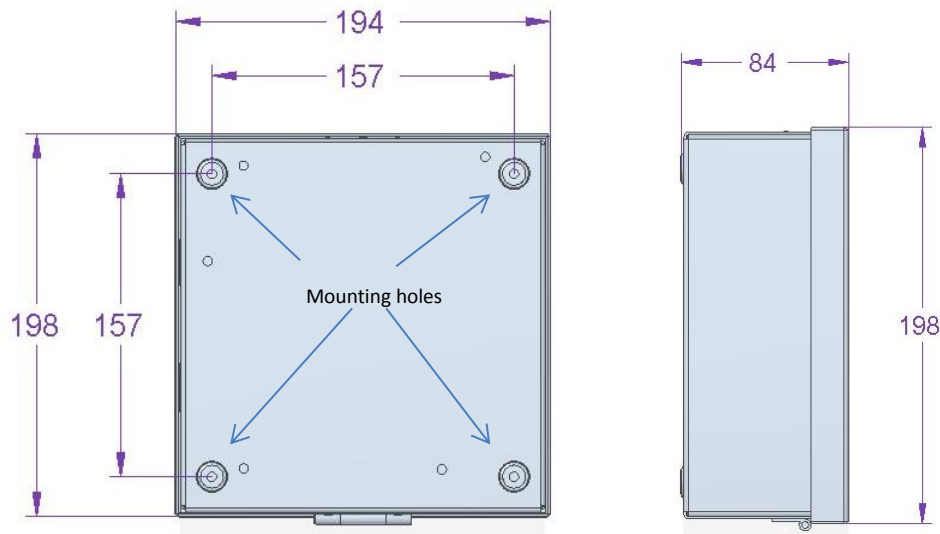
ATU and Circuit Sensing Wiring Schematic

Emergency luminaires and exit signs arranged as dedicated circuits with ATU device for sensing of supply and contactor switching control



Mounting of the ATU

It is recommended to screw fix the ATU to a flat surface using the 4 x mounting hole and dimples as shown below. Mark out the holes using the base of the ATU, drill holes into the mounting surface and fix the ATU with suitable fixings (not supplied) and wall plugs if necessary (not supplied). The ATU is supplied with side cable entry points (knock-outs) for sensing of supply cables and power supply cables.



Automatic Timer Unit

Installation & Maintenance Instruction Leaflet



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Designed and Manufactured in Australia to comply with the requirements of the AS2293.3\ AS2293.1-2005\ AS/NZ2293.2-2005

Models:

- EATUKS Automatic Timer Unit and Circuit Sensor – Key Operated
- EATUPB Automatic Timer Unit and Circuit Sensor – Push Button Operated

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.

The Automatic Test Unit (ATU) is designed and manufactured by Clevertronics for the periodic testing of emergency luminaires and circuit supply sensing (where emergency and exit lighting circuits are dedicated and not on the same circuit as the normal lighting).

The ATU incorporates Circuit Sensing, which automatically controls an external contactor(s), to activate the emergency lighting should one of the normal lighting circuits lose power. Under normal conditions, all lighting circuits on, the ATU will hold a normally open contactor closed thus the dedicated emergency lighting circuits will be energized and emergency luminaires charging. On the loss of any lighting circuit the ATU will drop power from the contactor control output and the contactor will automatically spring open, dropping the supply to the emergency lights and bringing them on in emergency mode.

The Unit shall be installed in the desired position and connected as required by a licensed electrician.

1.0 ATU Installation and Wiring

There are three steps involved in wiring the ATU.

- 1.1 Connect Circuit Sensing
- 1.2 Connect ATU 240V AC Supply
- 1.3 Connect Contactor output

1.1 Circuit Sensing Connection

To wire the Circuit Sensing section of the ATU, firstly confirm which "Normal Lighting Circuits" require sensing.

From the 1st Normal Lighting Circuit at the Distribution Board, connect an SDI cable between the load side of the respective circuit breaker and Active terminal #1 on the ATU.

From the 2nd Normal Lighting Circuit at the Distribution Board, connect an SDI cable between the load side of the respective circuit breaker and Active terminal #2 on the ATU.

Continue as above until all Normal Lighting Circuits requiring sensing have been connected to an Active terminal on the ATU as described.

Following completion of the above, **LINKS** must be either inserted or removed as follows:-

- All Active terminals that have an input, please **remove** the "Circuit Sensing Link".
- All Active terminals that don't have an input, please **insert** the "Circuit Sensing Link".

1.2 ATU Power Supply Connection

To enable the ATU to operate, the installer must connect a separate Active from the load side of a General Power circuit breaker within the Distribution Board, together with a separate Neutral and Earth to the E,N,A terminals on the ATU as detailed in the following schematic.

1.3 Contactor Output Connection

To enable control of the emergency lighting circuits, an Active and Neutral wire must be connected between the terminals on the ATU and the Control Coil on the Contactor as detailed in the following schematic. The Contactor should contain a 240V Control Coil and be Normally Open for fail-safe operation. **Note:** Check LINK Select Option overleaf. The Normally Open Contactor is not supplied as part of the ATU and must be supplied separately by the Installing Contractor.

Interconnection: Multiple ATUs can be linked via external contactors – contact Clevertronics for the Interconnection Wiring Diagram.

Link Selectable Options and Wiring Schematics

Delay Options (Jumper J1)

In accordance with AS/NZS2293, should the premises utilize HID lighting to illuminate the working area, provision should be made to provide temporary lighting whilst the HID lamps cool down, re-strike and illuminate fully. (In normal circumstances HID lamps will take 5-10 minutes to reach full brilliance)

If you require the emergency lights to remain illuminated for a further 10 minutes following the restoration of power, select Link **Delay**.

Test Options (Jumper J2)

For standard exit and emergency luminaires, select Link **Normal**.

For luminaires that have the Clevertronics "Clever-test" self-testing feature incorporated, select Link **S/Test**.

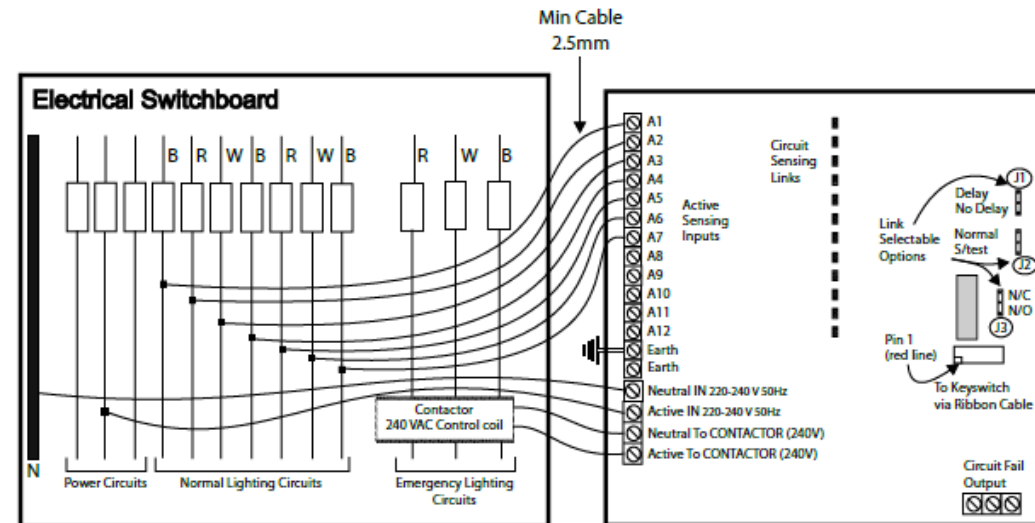
Contactor Normally Open / Normally Closed Selection (Jumper J3)

It is recommended that a "normally open" contactor be used, which eliminates the possibility of the contactor opening due to a failure of the control coil/relay on this device.

Link **NC** shorted – Normally Closed Contactor (240V control coil)

Link **NO** shorted – Normally Open Contactor (240V control coil)

Wiring & Selectable Links



Warranty:

The manufacturer warrants the goods against defects solely due to faulty parts or workmanship of the manufacturer for a period of 12 months from the date of purchase. This warranty covers the repair or replacement of the goods at the discretion of the manufacturer, upon the goods being returned to the nearest branch of the manufacturer at the clients cost. Any other warranty or guarantee, expressed or implied, to the extent permitted by law, is expressly excluded. The manufacturer shall not be liable for any costs or consequential losses that may arise through the use of any of the manufacturers' products.