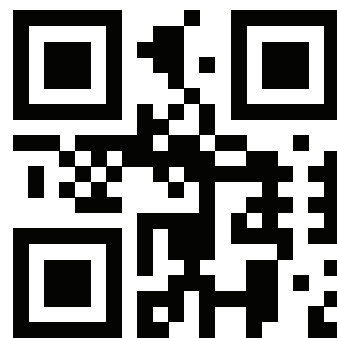




# Earth Leakage Test Unit

## "Press to Test"



### Earth Leakage Test Unit .

In accordance with the NRCS Department: Electrotechnical (VC 8035), 16-Oct-87, Sec 4.13, "Compulsory specification for earth leakage protection units".

The test facility shall be so connected in the circuit as to ensure that the sensing device, the amplifier, and the circuit-breaker mechanism are all tested for failure or deterioration. The test facility shall be so designed that a current equivalent to 125-175 % of the rated earth leakage tripping current flows through the sensing device when the test button is operated with the EL circuit-breaker energized at its rated voltage"

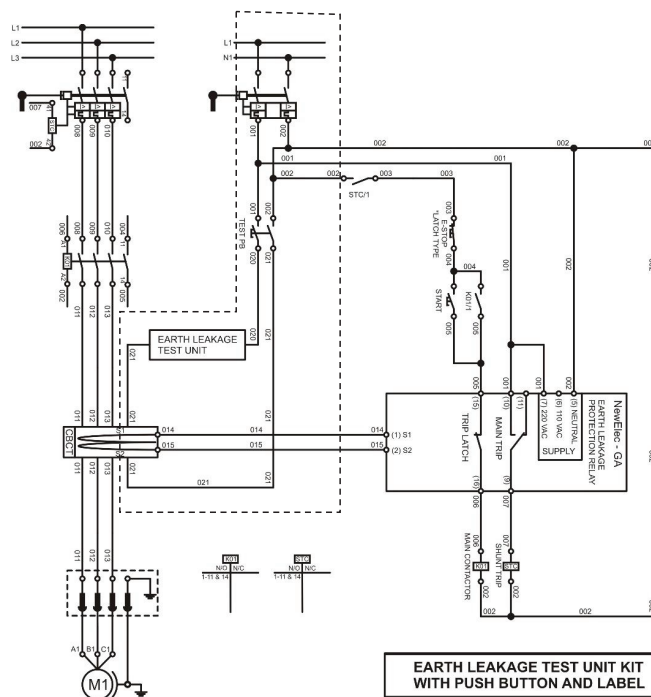
### ELU TESTER Description and Schematic

The physical ELU Tester kit consists of a small bolt-down enclosure (60 X 60 X 20 mm) with blue and red wires and yellow and red LED's. Included in the "Kit is a 22 mm yellow Push Button with a two pole Normally Open (NO) contact block.

The schematic wiring diagram reflects a typical circuit that comprises of the NewElec GA Earth Leakage Unit.

The unit is Universal and can be adapted for any other brand Earth Leakage device is shown on figure 1.

All ELU Tester sensitivity ordering details are also indicated.

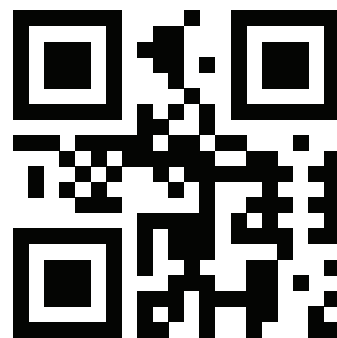


### For Further Information Contact

Tel: 012 327 1729  
24 Hour Line: 086 103 041  
Fax: (012) 327-1733  
NewElec Pretoria (Pty) Ltd  
Head Office: 298 Soutter Street  
Pretoria West, South-Africa, 0182  
GPS: 25°45'12"S 28°09'46"E

| EARTH LEAKAGE TEST UNIT         |
|---------------------------------|
| ALL UNIT CUT OFF AT 75 DEGREE C |
| FUSE PROTECTION AT 100 DEGREE C |
| FPR1001 - 30mA @ 110VAC         |
| FPR1002 - 250mA @ 110VAC        |
| FPR1003 - 375mA @ 110VAC        |
| FPR1004 - 500mA @ 110VAC        |
| FPR1005 - 1000mA @ 110VAC       |
| FPR1006 - 30mA @ 220VAC         |
| FPR1007 - 250mA @ 220VAC        |
| FPR1008 - 375mA @ 220VAC        |
| FPR1009 - 500mA @ 220VAC        |
| FPR1010 - 1000mA @ 220VAC       |

| EARTH LEAKAGE TEST UNIT KIT WITH PUSH BUTTON AND LABEL |
|--------------------------------------------------------|
| FPR1101 - 30mA @ 110VAC                                |
| FPR1102 - 250mA @ 110VAC                               |
| FPR1103 - 375mA @ 110VAC                               |
| FPR1104 - 500mA @ 110VAC                               |
| FPR1105 - 1000mA @ 110VAC                              |
| FPR1106 - 30mA @ 220VAC                                |
| FPR1107 - 250mA @ 220VAC                               |
| FPR1108 - 375mA @ 220VAC                               |
| FPR1109 - 500mA @ 220VAC                               |
| FPR1110 - 1000mA @ 220VAC                              |
| NEWEELEC (Pty) Ltd                                     |
| Document Name<br>NE_ELT WIRED_AHS_01_15_A-00.des       |
| Reference<br>EARTH LEAKAGE TEST UNIT WIRED             |
| Revision 01A-00 Date 13 DEC 2015 Page 2 Of 2           |



## Earth Leakage Test Unit "Press to Test"

### Installation Procedure

One side of the pushbutton two pole contact must be connected to live (wire 001) and neutral (wire 002) of the control voltage respectively, as shown figure 1.

Connect the red wire (wire 020) of the ELU Tester to one side of the two pole NO contact which is connected to live. The blue wire (wire 021) will be passed through the installed summation core and connected to the other side of the two pole push button connected to neutral.

The ELU Tester can be mounted on the chassis by means of the two diagonally opposite 5 mm holes designed for this purpose.

### Kit Consists of:

1. Small bolt-down enclosure (60 X 60 X 20 mm)
2. 22 mm Yellow Push button
3. Two pole Normally Open (NO) contact block.

As a safety precaution the device integrates a heat activated cut off thermistor that will cut the circuit off at a 75°C value and as an added precaution fuse at 100°C. The latter signifying the need to replace the unit. Identifying fault LEDs are integrated into the testing device that indicate thermistor cooling down (YELLOW) and fused (RED).

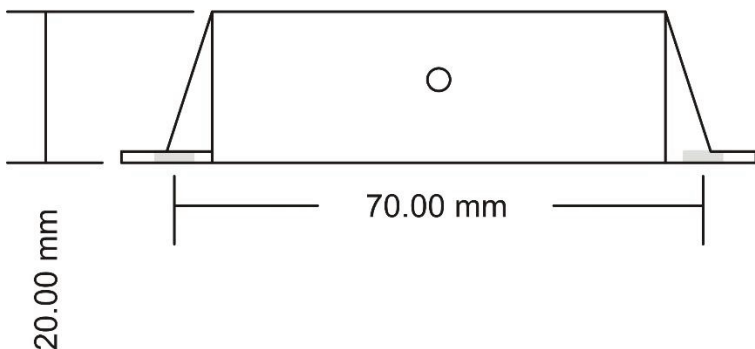
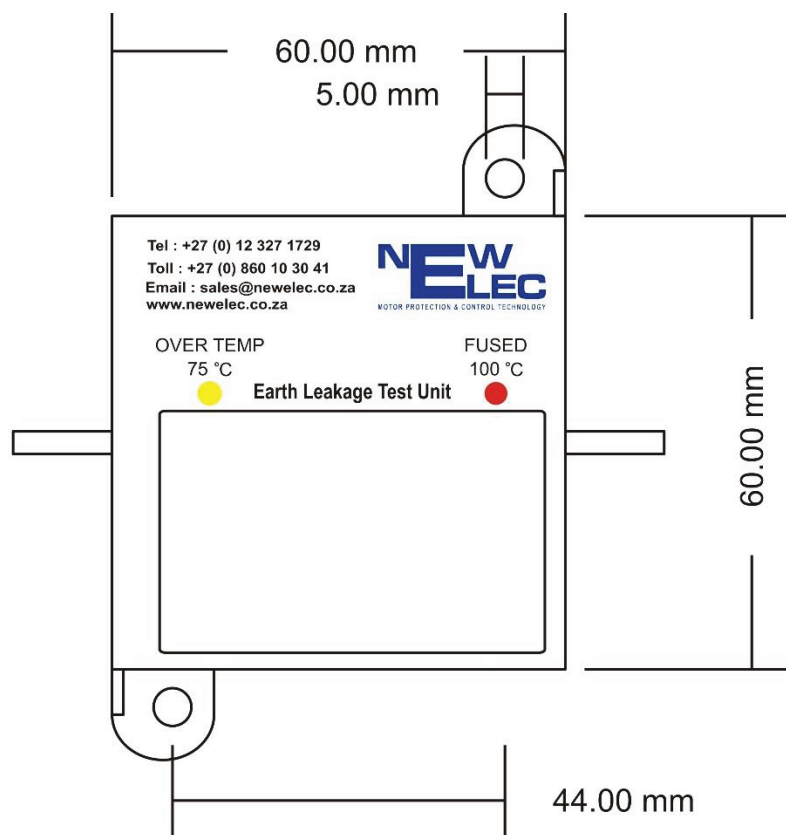


Figure 2: Dimension diagram of the NewElec ELTU Tester