# SE910, 970 & 995 Metal Enclosure (CT operated)

## Introduction

The new SE 900 metal enclosure is the latest design suitable for the IC 900 range of panel mounted electricity meters. The enclosure has been designed with the electrical contractors in mind making it aesthetically pleasing and easy to install. The enclosure is manufactured in 1.2mm steel and is powder coated in cream semi gloss (RAL 9001) to give strong, robust and aesthetically pleasing appearance.

The SE 910, 970,995 enclosures are all fitted with voltage fuses and current transformer shorting terminals these are pre wired to the meter enabling a quick and simple installation, all terminals and wires used are colour coded and individually marked.

Autometers supplies cable harnesses which are colour coded and individually numbered which are used from the meter to the external current transformers enabling an even simpler and better installation, also available is a wide range of split core or moulded case current transformers in various sizes. Please see full details on Autometers web site. *www.autometers.co.uk.*

## Installing the Enclosure

Examine the area where you intend to fit the enclosure and check that you have all the necessary parts and that the cable is long enough to reach all terminals.

See connection diagram opposite.

1. Unscrew the four fixing screws which secure the cover on the box.
2. Disconnect the Earth wire from the Earth terminal; loosen the four screws which hold the inner bracket in the box and lift up (inner bracket has key hole slots), this enables the inner bracket to be lifted out
3. The box is fitted with 12 circular 25mm knock outs, four on the top, four on the bottom and two on each side. One 25mm hole is a large enough if using the Autometers cable harness for this meter. Position and remove the 25mm knock out for your cable entry
4. Position and secure the box to the wall using the four fixing holes provided in the back of the box ,secure your 25mm cable gland and insert your cables.
5. Fit and secure the inner bracket.
6. Re-connect the Earth wire back into the Earth terminal, also check at this time the Earth wire is connected to the metal box
7. Connect all the wires to the terminal strip as per the diagram below. Do all necessary tests to ensure the installation fully complies to the Electricity Regulations.
8. Then re-fit the cover on with the four screws provided.

## Earthing the Enclosure

The enclosure must be earthed in accordance to the latest electricity regulations concerning steel enclosures. The enclosure comes with an Earthing terminal on the din rail for your incoming earth, please check that the Earth wire is attached securely to the base.

When connecting the wires, form the wire and leave a generous length so that the wire is not pulling on the terminal. When you have completed the installation do the required electrical tests to ensure the installation complies with the latest electricity regulations concerning installation of meters in metal enclosures.

## DO NOT MEGGA TEST THE VOLTAGE OR CURRENT CIRCUITS WITH THE METER CONNECTED



325

180

Depth 125mm. All dimensions in mm



SL Represents shorting links

To replace fuse turn screw and remove A, B, or C.

Before removing the meter isolate the mains from the meter by removing screws A, B, C and D. To short out the current terminals insert the yellow links marked SL to terminals S1 and P1, S1 and P2 and S1 and P3 as illustration above in phase 3.