



## DA-0101 / DA-0103 DIGITAL AMMETERS

### INTRODUCTION

These state-of-the-art panel meters are designed for accurate measurement of the AC RMS currents in single-phase and three-phase systems. The current transformer ratio can be set between 5/5A and 5000/5A via front panel buttons.

The **DA-0103** model allows both manual selection of the display channel and automatic scrolling.

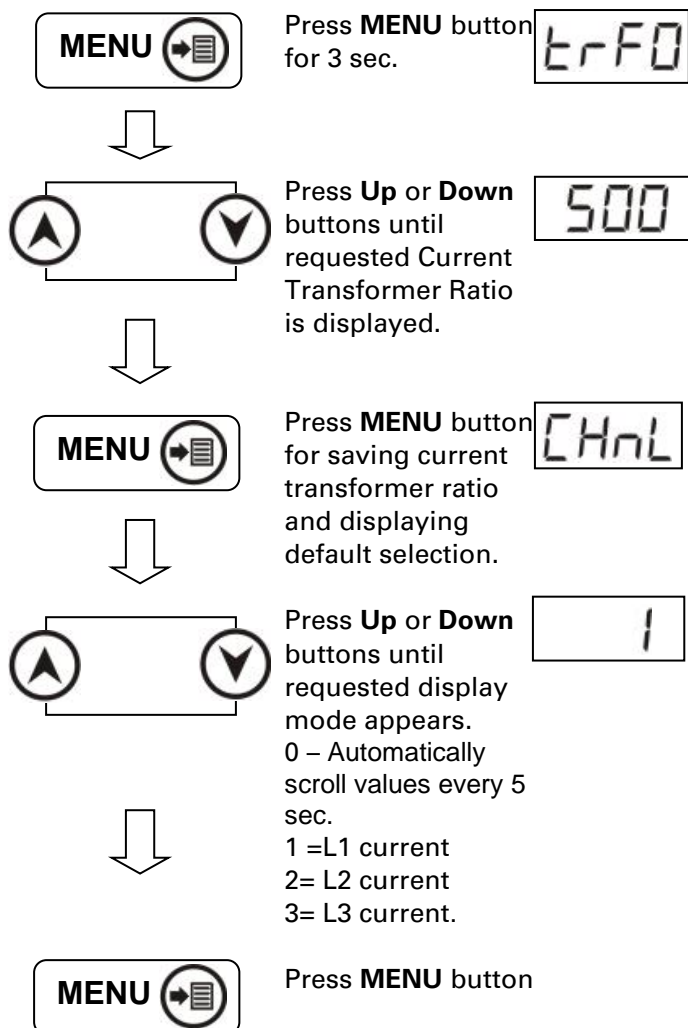
#### Changing Display Selection (DA-0103 only):

By using the **MENU**  button, L1, L2 and L3 currents can be selected and read from display. Every depression on the **MENU**  button will display the next measurement.

60 seconds after the last keypress, the display will return automatically to the default display mode. However the default display mode is selectable by programming.

### SETTING THE CURRENT TRANSFORMER RATIO AND THE DEFAULT DISPLAY

Selections are stored into a non-volatile memory and is not affected from power failures.



for saving default selection and exit for settings.

### PRECAUTIONS FOR INSTALLATION AND SAFE USE



**Failure to follow below instructions will result in death or serious injury**

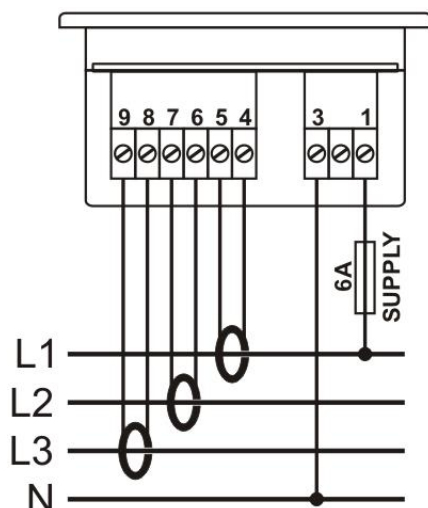
- Do not open the unit. There is no serviceable parts inside.
- A fuse must be connected to the power supply input, in close proximity of the unit.
- Fuses must be of fast type (FF) with a maximum rating of 6A.
- Disconnect all power before working on equipment .
- When the unit is connected to the network do not touch terminals.
- Short circuit terminals of unused current transformers.
- Do not try to clean the device with solvent or the like. Only clean with a dry cloth.
- Verify correct terminal connections before applying power.
- Electrical equipment should be serviced only by competent service personnel. No responsibility is assured by the manufacturer or any of its subsidiaries for any consequences arising out of the use of this material.
- Only for front panel flush mounting.

#### Before installation

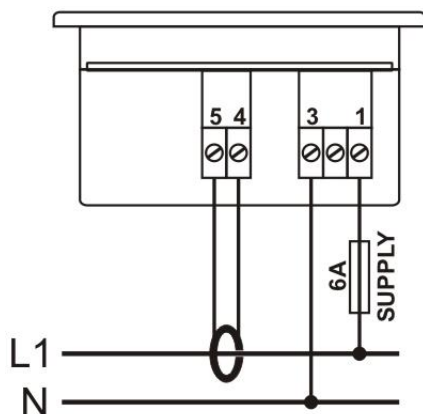
- Read the user manual carefully, determine the correct connection diagram.
- Remove all connectors and mounting brackets from the unit, then pass the unit through the mounting opening.
- Put mounting brackets and tighten. Do not tighten too much, this can brake the enclosure.
- Make electrical connections with connectors removed from sockets, then place connectors to their sockets.

## CONNECTION DIAGRAM

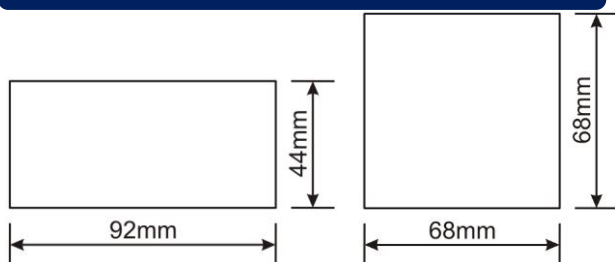
### DA-0103



### DA-0101

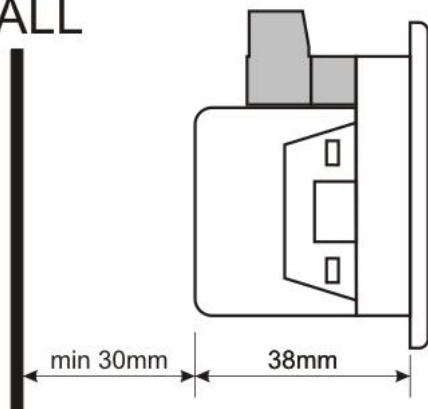


## PANEL CUTOUT DIMENSIONS



## MOUNTING TOLERANCES

WALL



## TECHNICAL SPECIFICATIONS

**Power Supply Input:** 170 - 275VAC  
50 - 60Hz nominal ( $\pm 10\%$ )  
Different AC/DC supply values available.

**Measurement Inputs:**  
0.2 – 5.50 A AC  
30 - 100 Hz

**Accuracy:** 0.5% + 1 digit

**Power Consumption:** < 1.5W

**Burden:** < 1VA per phase

**Operating Temperature:** -40°C to +70 °C

**Maximum Humidity:** 95% non-condensing.

**Degree of Protection:** IP 54 (Front Panel)  
IP 30 (Back panel)

**Enclosure:**  
Non-flammable, ROHS compliant, high temperature ABS/PC (UL94-V0)

**Installation:**  
Flush mounting with rear retaining brackets

**Dimensions:**  
**96x48 models:** 102x54x41mm (WxHxD)  
**72x72 models:** 78x78x41mm (WxHxD)

**Panel Cutout Dimensions:**  
**96x48 models:** 92x44mm  
**72x72 models:** 68x68mm

**Weight:** 125 gr

**EU Directives Conformity:**  
2006/95/EC (low voltage)  
2004/108/EC (EMC)

**Norms of reference:**  
EN 61010 (safety requirements)  
EN 61326 (EMC requirements)

## PACKAGING INFORMATION

**Pieces per Package:** 24 Pcs

**Package Size:** 280 x 170 x 215mm (LxWxH)

**Package Weight:** 3.2 kg

## FACTORY SETTINGS

$t_{rFD} = 500$   
 $CHnL = 0$

