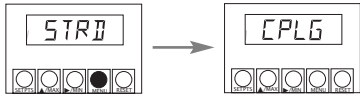


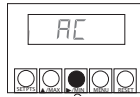
# 5

## Set Coupling (continued)

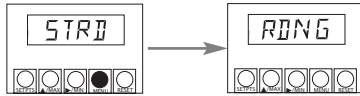
6. Press **MENU** to select the frequency shown. The meter displays:



7. Press **►/MIN**. The meter flashes the current coupling selection. Press **▲/MAX** to scroll through choices. Your choices are: AC or DC coupling.

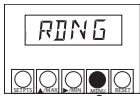


8. Press **MENU** to select the coupling type. The meter displays:

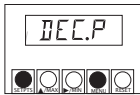


## To Set Up Reading Configuration

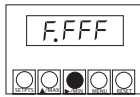
1. If necessary, press **MENU** until the meter displays:



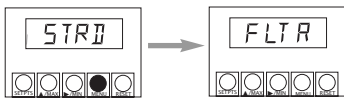
2. Press **SETPTS**, followed by **MENU** until the meter displays:



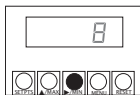
3. Press **►/MIN**. The meter flashes the current decimal point setup. Press **▲/MAX** to scroll through choices. Your choices are F.FFF, FF.FF, FFF.F and FFFF.



4. Press **MENU** to select the decimal point shown. The meter displays:



5. Press **►/MIN**. The meter flashes the filter value. Press **▲/MAX** to scroll through choices. Your choices are 0, 4, 8, 16 & 64.

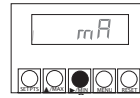


6. Press **MENU** to select the filter value shown. The meter displays:

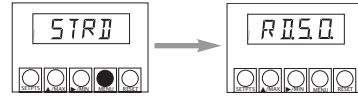


# 6

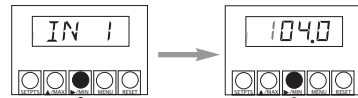
7. Press **►/MIN**. The meter flashes the unit value. Press **▲/MAX** to scroll through choices. Your choices are V (A) and mV (mA).



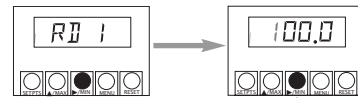
8. Press **MENU** to select the unit value shown. The meter displays:



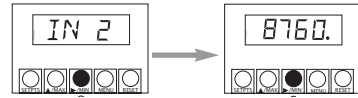
9. Press **►/MIN**. The meter displays "IN 1". Press **►/MIN** to show the unscaled value. Press **►/MIN** and **▲/MAX** to enter the desired value.



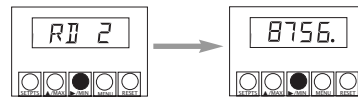
10. Press **MENU** to select value. The meter displays "RD 1" (desired display at Input 1). Press **►/MIN** and **▲/MAX** to enter the desired value.



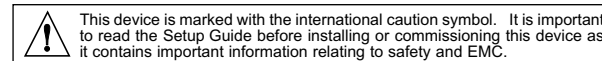
11. Press **MENU** to select value. The meter displays "IN 2". Press **►/MIN** to show the unscaled value. Press **►/MIN** and **▲/MAX** to enter the desired value.



12. Press **MENU** to select value. The meter displays "RD 2" (desired display at Input 2). Press **►/MIN** and **▲/MAX** to enter the desired value. Reading Configuration is now complete.



**WARNING:** These products are not designed for use in, and should not be used for, patient connected applications.



It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

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If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear are not warranted, including but not limited to contact points, fuses, and triacs.

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Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. **BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS).** The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

**FOR WARRANTY RETURNS,** please have the following information available **BEFORE** contacting OMEGA:

1. P.O. number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

**FOR NON-WARRANTY REPAIRS,** consult OMEGA for current repair charges. Have the following information available **BEFORE** contacting OMEGA:

1. P.O. number to cover the COST of the repair,
2. Model and serial number of product, and
3. Repair instructions and/or specific problems relative to the product.

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## QUICK START



## DP25-CRMS, DP25-VRMS MICROPROCESSOR-BASED TRUE RMS METER



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Toll Free in England: 0800 488 488  
e-mail: [sales@omega.co.uk](mailto:sales@omega.co.uk)

## Using This Quick Start Manual

Use this Quick Start Manual to get your meter up and running right out of the box. To do this you:


- connect power
- configure the unit
  - specify input range
  - specify frequency
  - specify AC or DC coupling
  - set decimal point position
  - specify filter value
  - specify units (V, mV or blank)

## Before You Begin

In addition to the meter and the related parts, you will need the following items to set up your meter:

- ac power, as listed on meter's ID/Power Label
- 1/8" flat blade screwdriver

## Safety Consideration

 This device is marked with the international Caution symbol.

The instrument is a panel mount device protected in accordance with EN61010-1 (Safety requirements for electrical equipment for measurement, control, and laboratory standard). Remember that the unit has no power-on switch. Building installation should include a switch or circuit-breaker that must be compliant to IEC 947-1 and 947-3.

### SAFETY:

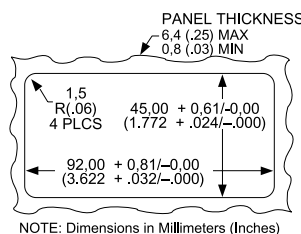
- Always disconnect power before changing signal and power connections.
- Do not exceed voltage rating on the label located on the top of the instrument housing.
- Do not use this instrument on a work bench without its case for safety reasons.
- Do not operate this instrument in flammable or explosive atmospheres.
- Do not expose this instrument to rain or moisture.

### EMC:


- Whenever EMC is an issue, always use shielded cables.
- Never run signal and power wires in the same conduit.
- Whenever EMC is an issue, always use shielded cables.
- Use signal wire connections with twisted-pair cables.
- Install Ferrite Bead(s) on signal wire close to the instrument if EMC problems persist.

## Mount the Unit

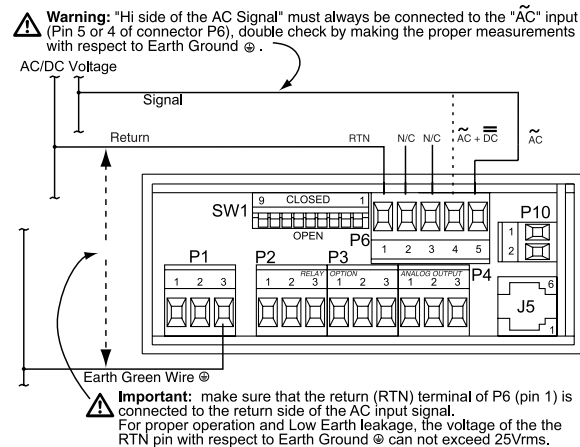
1. Cut a panel opening using the dimensions shown to the right.
2. Position the unit in the opening, making sure the front bezel is flush with the panel.
3. Install retaining clip on the meter and tighten against the panel



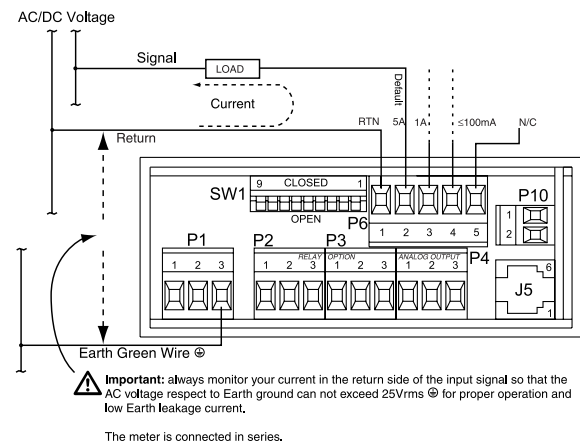
## Wiring-Signal Source

 **Warning: Do not connect AC power to your device until you have completed all input and output connections. This device must only be installed by a specially trained electrician with corresponding qualifications. Failure to follow all instructions and warnings may result in injury!**

1. Remove the panel at the back of the unit.
2. Locate the P6 connector.
3. Make sure the signal source is off.
4. Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws.
5. Tug gently on the wires to verify the connections.



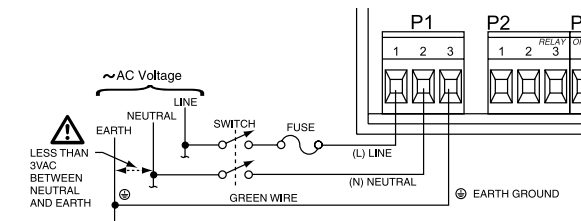
## For Voltage Meter



## For Current Meter

## Connect ac Power

1. Locate the P1 connector.
2. Insert the correct wire in each terminal as shown in the following figure and tighten the lockdown screws.
3. Tug gently on the wires to verify the connections.



## Turn On the Unit

1. Plug the unit into a properly grounded 115V power supply.

The unit initializes, scrolling the following message on the front panel: TRUE RMS VOLT or TRUE RMS CURRENT. Then the present value should display.

2. Verify that a value is displayed. If not:

- Unplug the unit
- Verify the P1 power connections
- Check your power source
- Plug the unit in again

## Set SW Switches (If Necessary)

Range	SW1-1 to SW1-5	SW1-6	SW1-7	SW1-8	SW1-9
750V	Open	Open	Closed	Open	Closed
100V	Open	Closed	Closed	Open	Open
10V	Open	Closed	Open	Closed	Open
1V	Open	Closed	Open	Open	Open
0.1V*	Open	Open	Open	Open	Open

## Range Selections for Voltage Input

Range	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6	SW1-7 to SW1-9
5A	Open	Open	Open	Closed	Open	Closed	Open
1A	Open	Open	Open	Open	Open	Closed	Open
100mA	Closed	Open	Open	Open	Open	Closed	Open
10mA	Open	Closed	Open	Open	Open	Closed	Open
1mA	Open	Open	Closed	Open	Open	Closed	Open

AC coupled / DC coupled

## Range Selections for Current Input

## Configure the Unit

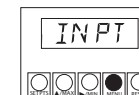
To configure the meter, you use the buttons on the front panel.

To:	Take This Action:
Display the Main Configuration Menu (examples: INPT, RDNG)	Press the MENU button. The first function on the menu, INPT, displays.
Select a level 2 item submenu (Once main menu displays) (example of level 2 RNGE under the INPT menu)	Press the STPTS button followed by the MENU button.
Select a level 3 submenu item (Once level 2 item displays) (example of level 3 is 10V under RNGE)	Press the ►/MIN button. Press the ▲/MAX button to scroll through level 3 selections.
Select a level 4 submenu* item (Once level 3 item displays) (example of level 4 is 300 under BAUD under COM.P (Communication Protocols))	Press the ▲/MAX button.
Go back to the previous menu function	Press the RESET button.
Exit the Configuration Menu	Press the RESET button twice.

\* If applicable

## Set Range, Frequency & Coupling

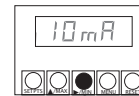
1. Press **MENU** until the meter displays:



2. Press **SETPTS**, followed by **MENU** until the meter displays:

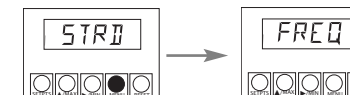


3. Press **►/MIN**. The meter flashes the input range. Press **▲/MAX** to scroll through choices. Your choices are: 0.1V(1mA)\*, 1V (10 mA)\*, 10V (0.1A)\*, 100V (1A)\* and 750V (5A)\*



\*— items in parenthesis are for current meter only

4. Press **MENU** to select the input range shown. The meter displays:



5. Press **►/MIN**. The meter flashes the current frequency setup. Press **▲/MAX** to scroll through choices. Your choices are: 50HZ, 60HZ or ALL.

