1 PHASE METER



FEATURES

- State of Art Microcontroller Based Design
- 1 Line 4 Digit ultra bright LED display
- Site programmable CT ratio(Primary & Secondary)
- Site programmable PT ratio (Primary & Secondary)
- True RMS measurement
- Password Protection

RS 485 Computer Interface (optional)

Harmonics (Individual & Total)

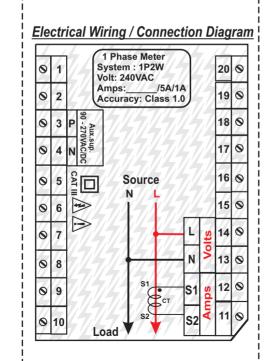
Auto Ranging

Universal Aux. Supply

PARAMETERS

- Active Energy
- Harmonics Volts Total (THDV)
- 🗸 Harmonics Amps Total (THDI)
- ✓ Load Hour
- Volts
- Amps
- Power Factor
- Active Power(kW)
- Reactive Power(kVAr)
- Apparent Power(kVA)
- Frequency

| MECHANICAL DIM | |
|---------------------------|-------|
| Bezzel 96 mm ∳───── | |
| 00 mm | |
| | 46 mm |
| Panel Cutout | t I |
| 91 mm 9 | 1 mm |



| DISPLAY PAGES | | | |
|---------------|---------|----------------------------|--|
| Page | Symbol | PARAMETERS | |
| 1 | V L-N 🔴 | Voltage (L-N) | |
| 2 | Α 🔴 | Amps | |
| 3 | Hz 🔴 | Frequency | |
| 4 | w 🔴 | Watts (Active Power) | |
| 5 | Var 🔴 | VAr (Reactive Power) | |
| 6 | VA 🔴 | VA (Apparent Power) | |
| 7 | PF 🔴 | Power Factor | |
| 8 | Ε | Active Energy | |
| 9 | սէհժ | Harmonics - Voltage - THDV | |
| 10 | iEhd | Harmonics - Current - THDI | |
| 11 | F | load Hour | |
| | | | |

Manual Scroll Mode :

In this mode the display shows parameter of the selected page . The parameter of next / previous page can be viewed by pressing or pressing key.

Auto Scroll Mode :

In this mode the display shows parameter of page1 then scroll to page2 and so on.

Display Freeze Mode :

This mode can be activated by pressing key during normal meter operation.

When this key is pressed the display will remain on the parameter it is currently displaying.

In this mode key can be pressed to see the other parameters of this page only, but to scroll to next page parameters first vou have to come out of freeze mode. Pressing 📧 key once again will bring the meter out of freeze mode.

SPECIFICATIONS

| Input Volts Amps Burden | : | 1 phase 2 wire Range 5-300V 0.015 to 6.00Amp 0.2 VA max. per phase for Voltage & Current Inputs 3 VA max. on Aux. Supply |
|----------------------------------|---|---|
| Aux.Supply | : | 90 - 270 VAC / DC |
| Display | : | 1 Line x 4 Digit |
| | | {0.56 Inches 7 Segment LED Display} |
| Computation | • | True RMS |
| Frequency | - | 45 Hz - 65 Hz. |
| Ambient | | -10 to 55°C |
| Storage | 1 | -20 to 75°C |
| Humidity | : | < 95 % Non-condensing |
| Weight | : | 280gms |
| Dimensions | : | 96 X 96 X 46 mm (L x W x D) |
| Panel Cutout | : | (90 ⁺¹ ₋₀)mm X (90 ⁺¹ ₋₀) mm |
| Mounting | | Flush Mounting with side clamps. |

Measurement range :

| Volts | : 10 - 500VAC L-L |
|----------------|--|
| Amp | : 0.015A - 6.00Amp AC |
| Display update | : 1Sec |
| Hz | : 45.0 to 65.0HZ |
| Resolution | : 0.1 for Energy , Auto ranging |
| | for other parameters. |
| Accuracy | : <u>+0.5% of full scale for voltage</u> , |
| | current, power, power factor. |
| Frquency | : <u>+</u> 0.1% for Hz |
| Energy | : class 1.0 |

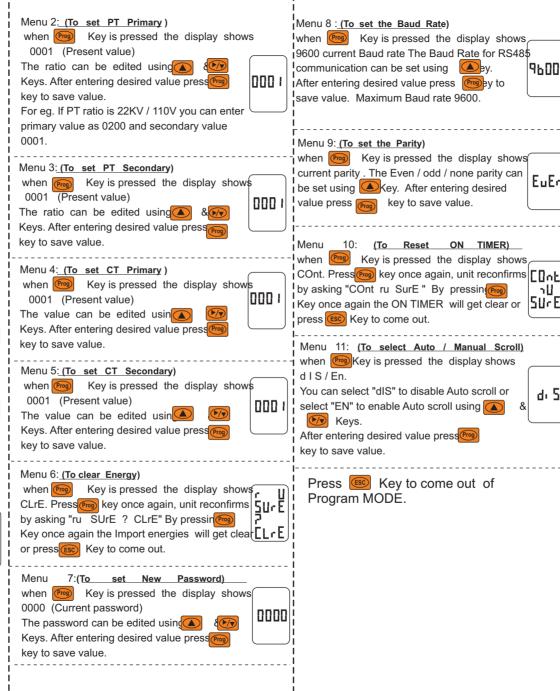
PROGRAMMING

| 1) Press key to enter Program Mode. 2) The Meter Shows Password Entry Page { PASS and then 0000} | | | PRS |
|---|---------|--|---------|
| | | word using Key to increment by to move to the next digit. After | L L |
| | | ssword press me next digit. Alter | |
| pass word is correct, the unit will enter the | | | 000 |
| program mode. | | | |
| Default factory set password is 2000 | | | |
| 3) Follo | wing Pr | ogramming menus are available | |
| | | | |
| Menu S | Symbol | Description | |
| 1 | 7ddr | Unit Address for RS485 commun | nicatio |
| 2 5 |)F D c | To set PT Primary | |

| 2 | PEPr | To set PT Primary |
|----|------|--------------------------------|
| 4 | | |
| 3 | PESE | To set PT Primary |
| 4 | ELPr | To Set CT Primary |
| 5 | CESC | To set CT Secondary |
| 6 | ELrE | To clear Energy |
| 7 | ∿P85 | To set New Password |
| 8 | ьяид | To set baud rate |
| 9 | PRr | To Select Parity |
| 10 | Elrt | To Clear Load Hour Timer |
| 11 | SEAL | To Select Auto / Manual Scroll |

Select the Menu to be edited using Keys and press Key to enter respective menu

| Menu 1:(Unit Address for RS485 communication) | |
|---|----------|
| when my Key is pressed the display shows | , |
| { 001}. | י חח |
| The address can be edited usin | |
| Keys. After entering desired value pres | \frown |
| key to save value. | |
| | |



Safety Precautions :

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the instrument

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

If there is physical damage to the unit then do not use it.

Read complete instruction prior to installation and operation of the unit.

Wiring Guidelines :

1) To Prevent the risk of electric shock power supply to the equipment must be kept OFF while I doing the wiring arrangement. 2) Wiring shall be done strictly according to the

terminal layout with shortest connection. Confirm that all connection are correct.

Caution :

9600

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ISUrE

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1) To ensure the safe operation of unit . check the wiring and connections.