

High Profile Multifunction Meter

JEO7500



www.enerjeometers.com

1. FEATURES

- True RMS Measurements.
- Simultaneous sampling of voltage and current.
- Aux voltage Input: 80 to 300V AC/DC
- Accuracy class: Class1 as per standard IEC 62053-21.
- 5-Row display with unique look with best possible parameter grouping
- LCD display with 4 measurement parameters along with 9 digit Energy parameter at a glance.
- Phase wise bar graph representation for Programmable A/Watt/VA
- Energy Import and Export, number of interruptions available
- Displacement PF and True PF.
- Simpler view of the quadrant the device presently operates, for layman understanding.
- Measurement of Voltage & Current THD.
- Individual Phase energy through communication for better load pattern analysis
- On-site setup for wiring configuration: STAR, DELTA and SINGLE PHASE.
- Auto Scaling of Decimal point.
- Programmable CT & PT Ratio.
- User programmable password protection.
- Front LED pulse 16000 imp/KWh for 5A.
- Representation of Power Factor as per IEC or IEEE standard.
- Load Profile for selected parameter- W/A. #
- Dynamic communication- User selectable address with selectable Parameters.#
- Phase angle measurement.
- Energy resetting at 99999999 KVAh*MF.
- Co2 emission.
- Neutral current measurement (Calculated)
- Note : # - Setup available through Communication.

2. KEY & DISPLAY INDICATION

2.1 Key Indication

Key	In setup mode	In run mode
Up	To edit the value or options	To scroll the pages and view the different parameters
Down	To edit the value or options	To scroll the pages and view the different parameters
Right	To Select the value and accept the value	To scroll the different pages of individual harmonics (Individual harmonics is optional)

2.2 Display Parameter

Parameter	Meaning
K	Kilo
M	Mega
MK	Giga
V with AVG in Line to Line page	Average Voltage Line to Line
V with AVG in Line to Neutral page page	Average voltage Line to Neutral
A	Average Amps
F	Frequency
V with L1-2	Voltage Line to line R phase - Y phase
V with L2-3	Voltage Line to line Y phase - B phase
V with L3-1	Voltage Line to line B phase - R phase
V with L1, L2,L3	Voltage Line to Neutral Phasewise
A with L1,L2,L3	Current Phasewise
W with TOT	Total Active Power
VA with TOT	Total Apparent Power
VAR with TOT	Total Reactive Power
PF with AVG	Average Power Factor
W with L1, L2, L3	Active Power Phase wise
VA with L1, L2, L3	Apparent Power Phase wise
VAR with L1, L2, L3	Reactive power Phase wise
disP. PF	Displacement PF
trUE. PF	True PF
PF with L1, L2, L3	PF Phase wise

Parameter	Meaning
KWh	Active Energy, Import in Kilo
KVAh	Apparent Energy, Import in Kilo
KVArh	Reactive Energy, Inductive Import in Kilo
KVArh with '-'	Reactive Energy, Capacitive Import in Kilo
Lh	Load hours, Import
KWh with EXP	Active Energy, Export in Kilo
KVAh with EXP	Apparent Energy, Export in Kilo
KVArh with EXP and '-'	Reactive Energy, Inductive Export in Kilo
KVArh with EXP	Reactive Energy, Capacitive Export in Kilo
Lh with EXP	Load hours, Export
rPm	RPM
Co2	CO2 emission
PC	Power cycles
oh	On hours
Ph.An with V & L1, L2, L3	Voltage Phase angle
Ph.An with A & L1, L2, L3	Amps phase angle
un.bA with V & L1, L2, L3	% Unbalance Voltage Phasewise
un.bA with A & L1, L2, L3	% Unbalance Amps Phasewise
V with THD & L1, L2, L3	Voltage THD Phasewise
A with THD & L1, L2, L4	Current THD Phasewise
An.C	Neutral Amps Calculated

3. PROGRAMMING MODE

3.1 Setup Procedure

Press the UP & Right key together to enter setup, display shows  Enter Password(default -1000). Blinking of digits indicate editing is possible. Press Down to decrement value from 9 to 0.

Press Right key to move to the next digit till 4th digit.

If Password is correct, editing is possible and meter displays 

Press Right Key to view the parameter option/ value. Press Up or Down key to edit parameter value/ option. Press Up key to increment values or to select from available options. Press Down to decrement values or to select from available options. Press Right key to save the option/ value parameter. Press Down key to edit next parameter till end of last parameter. Refer 3.4

3.2 Clearing Parameters

1. Press the UP & DOWN keys together to enter the Clear mode, display shows Row1: 0000 with first digit "0" blinking. Row2: CLR
2. Press UP key to increment the first digit "1" If any password is already set, use UP and DOWN key to set the correct Password. (Default password is 1000)
3. Press RIGHT key to move second digit and or accept the password if any password is already set, press UP and DOWN key to change the value then press RIGHT key to accept the value.
4. Continue the same method for 3 digit and 4 digit then display shows "CLr.m". CLr.I = Clear Integrate of energy parameter. CLr.m = Clear Maximum demand parameter (optional)
5. Press DOWN or UP key to select the required parameter option to clear.
6. Press RIGHT key to accept to clear, display shows "n" (n = No), then press UP/DOWN key display shows "Y" (Y = YES). To Clear select "Y" and press RIGHT key to accept to clear.

3.4 Display Setup

Action	Default	Option/Range
Press Down key	Row1: StAr Row 2:ELEM	Options: Star/Delta/1Phase.
Press Down key	Row1: 415.0 Row 2:P.Prl	PT Primary Range: 50V to 999K V
Press Down key	Row1: 415.0 Row 2:P.SEC	PT Secondary Range: 50V to 600 V
Press Down key	Row1: 5.000 Row 2:C.Prl	CT Primary Range: 0.5A to 99K A
Press Down key	Row1: 5.000 Row 2:C.SEC	CT Secondary Range: 0.5A to 6A
Press Down key	Row1: VEC.H Row2: VA.SL	VA Selection Options: VEC.H/VECt/Arth
Press Down key	Row1: 9600 Row 2:bAUD	Baud rate Options: 4800/9600/19200/38400
Press Down key	Row1: EUEn Row 2:PrtY	Parity Options: Odd/Even/None
Press Down key	Row1: 1.000 Row 2:du.Id	Device ID Range: 1 to 247
Press Down key	Row1: ---- Row 2:Pwd	Password Range: 1000 to 9999
Press Down key	Row1: 4.000 Row 2:POL.S	Poles Range: 2 to 28
Press Down key	Row1: IEC Row 2:PF.F0	PF representation selection Options: IEC/ IEEE
Press Down key	Row1: A Row 2: bAr.S	Bar graph parameter Option: A/ W/ VA
Press Down key	Row1: SAUE Row 2:yEs	Save Option: Yes/No

3.5 Enabling and Disabling Auto Scrolling

Enbl.
RUE

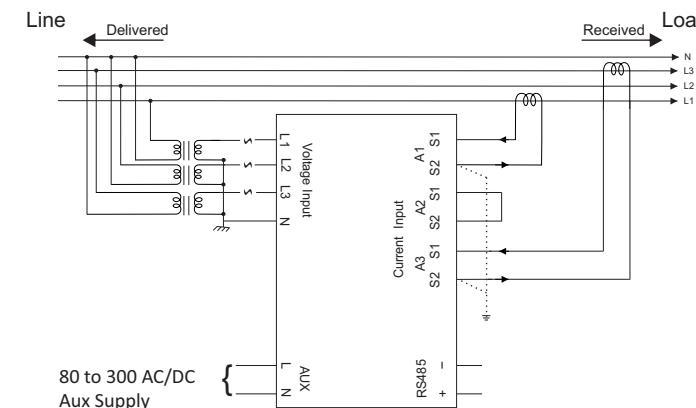
Press Down or Up Key for 5 secs or until display shows:

d5bl.
RUE

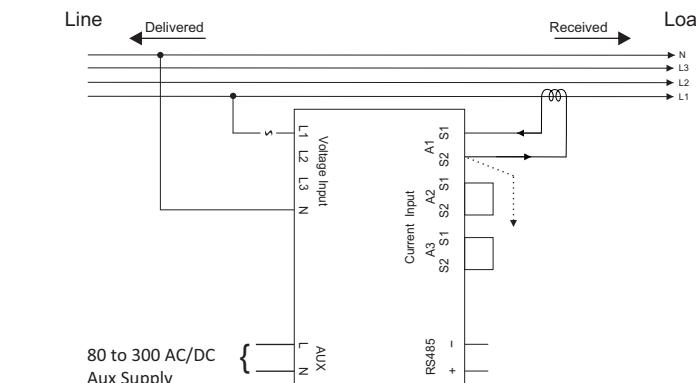
Now display will start to scroll all parameters automatically every 5 seconds.

Again press any key to disable auto scrolling. Display shows:

Delta Connection (2E) 3 Phase 3 Wire System

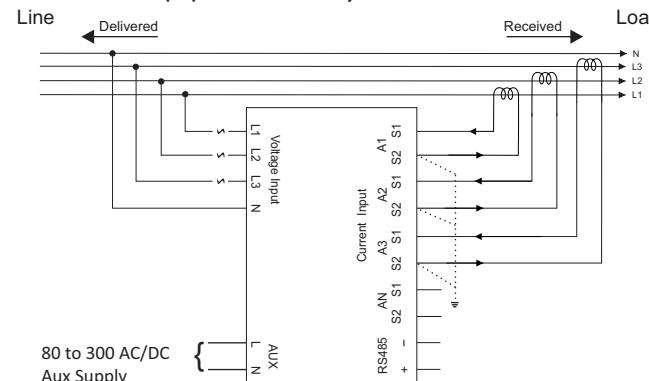


Single Phase Connection 1 Phase 2 Wire System



4. WIRING DIAGRAM

Star Connection (3E) 3 Phase 4 wire System



5. MECHANICAL SPECIFICATION

Dimension : 96 x 96mm x 64mm

