



TECHNICAL SPECIFICATION

PARAMETER SPECIFICATION

Input Signal	3Ø 4W/1Ø 2W Selectable
CT Primary	up to 9999A (Programmable)
PF Avg. & Per Phase	0.100 - 1.000
Frequency (Hz)	45.00 - 60.00 Hz
Load hours	9999.59 Hrs/Min.
No load hours	9999.59 Hrs/Min.
RPM	3600 RPM @ 60 Hz & 2 pole
POWER	
KW Total	0.000 - 9999 kW
kW Per Phase	0.000 - 9999 kW
kVA Total	0.000 - 9999 kVA
kVA Per Phase	0.000 - 9999 kVA
kVAr Total	0.000 - 9999 kVAr
kVAr Per Phase	0.000 - 9999 kVAr
ENERGY	
kWh Total	000.000 - 99999999 kWh
kVAh Total	000.000 - 99999999 kVAh
kVArh Total	000.000 - 99999999 kVArh

INPUT:

Voltage AC	
Direct Voltage AC	30 to 300V(L - N)
Current AC	
Primary CT Ratio	5 to 9999 Amp selectable
Secondary Current AC	0.03 to 5 Amp

DISPLAY & KEY :

Display	8 Digit, 7 Segment 0.5" RED
Key	SET/ENT, INC, DEC

DIMENSION :

Size	48 (H) x 96 (W) x 75 (D) mm
Panel Cutout	45 (H) x 92 (W) mm

AUXILIARY SUPPLY :

Supply voltage	100 to 270V AC, 50/60Hz
Power consumption (VA RATING)	Approx 4 VA @ 230V AC MAX

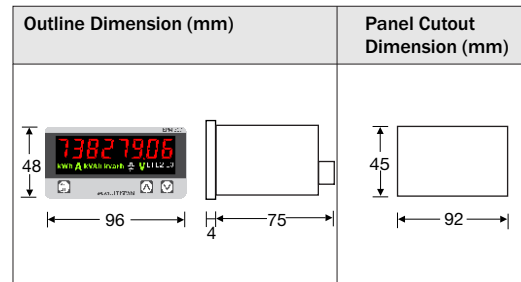
ACCURACY:

Class 0.5

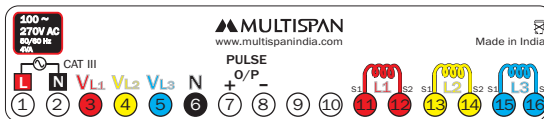
ENVIRONMENT CONDITION:

Operating Temp.	0 °C to 55 °C
Relative Humidity	UP to 95% RH (non-condensing)
Protection Level (AS Per Request)	IP-65 (Front side) As per IS/IEC 60529 : 2001

MECHANICAL DIMENSION



TERMINAL CONNECTION



KEY OPERATION

PARAMETER SETTING MODE	
To Set Parameter Value	Press For 5 Sec
To Increment parameter value	
To Decrement parameter value	
To Exit from parameter setting	
To scroll & hold pages	Press + For 5Sec

RESOLUTION

CT PRIMARY	ENERGY RATE PULSE OUTPUT
5 to 75	0.01 Kwh
76 to 750	0.1 Kwh
751 to 7500	1 Kwh
7501 to 9999	10 Kwh

INSTALLATION GUIDELINES

1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
2. Do not allow pieces of metal, wire clippings, or fine metallic fillings from installation to enter the product or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
3. Circuit breaker or mains switch must be installed between power source and supply terminal to facilitate power 'ON' or 'OFF' function. However this mains switch or circuit breaker must be installed at convenient place normally accessible to the operator.
4. Use and store the instrument within the specified ambient temperature and humidity ranges as mentioned in this manual.

MECHANICAL INSTALLATION GUIDELINES

1. Prepare the panel cutout with proper dimensions as shown above.
2. Fit the unit into the panel with the help of clamp given.
3. The equipment in its installed state must not come in close proximity to any heating source, caustic vapors, oils steam, or other unwanted process byproducts.
4. Use the specified size of crimp terminal (M3.5 screws) to wire the terminal block. Tightening the screws on the terminal block using the tightening torque of the range of 1.2 N.m.
5. Do not connect anything to unused terminals.

MAINTENANCE

1. The equipment should be cleaned regularly to avoid blockage of ventilating parts.
2. Clean the equipment with a clean soft cloth. Do not use isopropyl alcohol or any other cleaning agent.
3. Fusible resistor must not be replaced by operator.

SAFETY PRECAUTION

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 all the equipment is not handled in a manner specified by the manufacturer, it might impair the protection provided by the equipment.

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

WARNING : Risk of electric shock.

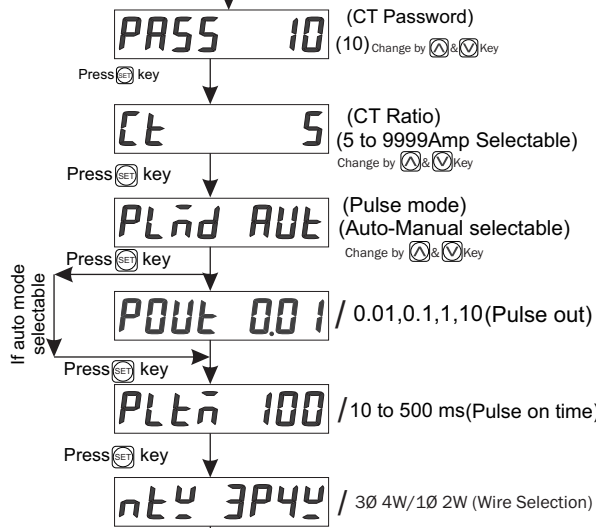
WARNING GUIDELINES

WARNING : Risk of electric shock.

1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement. Do not touch the terminals while power is being supplied.
2. To reduce electro magnetic interference, use wire with adequate rating and twists of the same of equal size shall be made with shortest connection.
3. Cable used for connection to power source, must have a cross section of 1mm or greater. These wires should have insulations capacity made of at least 1.5kV.
4. A better anti-noise effect can be expected by using standard power supply cable for the instrument.

PARAMETER SETTING:

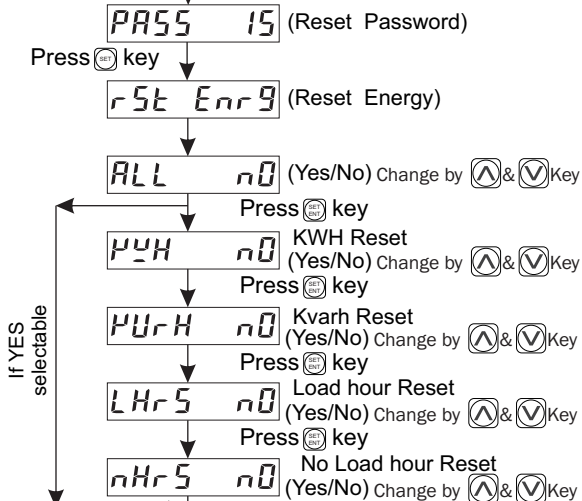
Press **SET** key For 5 Sec



Press **SET** key TO Save & exit

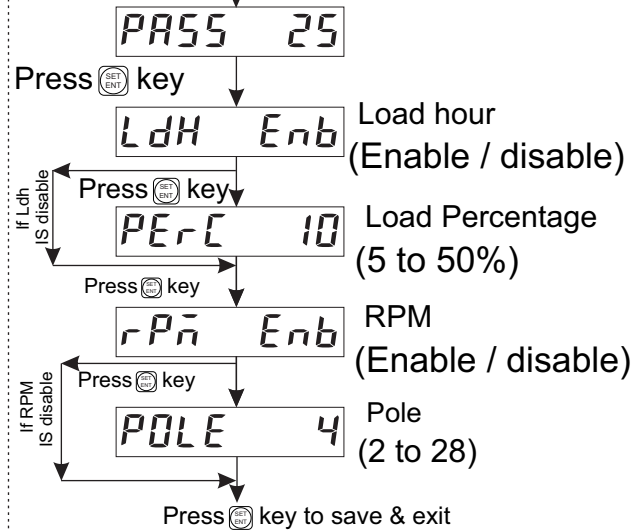
RESET SETTINGS

Press **SET** key For 5 Sec



LOAD HOUR & RPM

Press **SET** key For 5 Sec



PAGES

1) V_{LN} (L1)

2308
 V_{L1}

2) V_{LN} (L2)

235.7
 V_{L2}

3) V_{LN} (L3)

245.7
 V_{L3}

4) V_{LN} (AVG)

237.2
 V_{L1L2L3}

5) V_{LL} (L1-L2)

415.7
 V_{L1L2}

6) V_{LL} (L2-L3)

388.9
 V_{L2L3}

7) V_{LL} (L1-L3)

510.4
 V_{L1L3}

8) V_{LL} (AVG)

438.6
 V_{L1L2L3}

9) Current(L1)

487.5
 A_{L1}

10) Current(L2)

3.120
 A_{L2}

11) Current(L3)

5.000
 A_{L3}

12) Current(AVG)

433.1
 A_{L1L2L3}

13) Frequency

FrEQ 50.1

14) PF (L1)

PF 0.987
 $L1$

15) PF (L2)

PF 0.521
 $L2$

16) PF (L3)

PF 0.861
 $L3$

17) PF (AVG)

PF 0.789
 $L1L2L3$

18) KW (L1)

1.184
 kW_{L1}

19) KW (L2)

1.104
 kW_{L2}

20) KW (L3)

1.808
 kW_{L3}

21) KW (Total)

1.209
 kW_{L1L2L3}

22) KVA (L1)

1.209
 kVA_{L1}

23) KVA (L2)

1.287
 kVA_{L2}

24) KVA (L3)

1.208
 kVA_{L3}

25) KVA (Total)

3.704
 kVA_{L1L2L3}

26) Kvar (L1)

0.296
 $kvar_{L1}$

27) Kvar (L2)

0.394
 $kvar_{L2}$

28) Kvar (L3)

0.594
 $kvar_{L3}$

29) Kvar (Total)

1.284
 $kvar_{L1L2L3}$

30) Kwh

5922.1
 kWh

31) Kvah

211.10
 $kVAh$

32) Kvarh

211.10
 $kvarh$

33) Load hour

LHr 0.12

34) No Load hour

nHr 0.07

35) RPM

rPñ 1500

Note : In 1P-2W Page 1,9,13,14,18,22,26,30, 31,32,33,34,35 will display

Specifications are subject to change, since development is a continuous process,
So for more updated operating information and Support,
Please contact our Helpline: +91-9081078683/81 or
Email at service@multispanindia.com Ver:191201