



TECHNICAL SPECIFICATION

INPUT

Voltage AC	
Direct voltage AC	20 to 300V (L - N) 35 to 520V (L - L)
Primary PT Ratio	100V to 520kv Selectable
Secondary PT Ratio	100V to 520v Selectable
Burden	< 0.2 VA
Current AC	
Primary CT Ratio	5 to 9999A Selectable
Secondary Current Ac	(0.1 To 5 Amp)
Burden	< 0.2 VA
Overload	Up to 6A Continuous
Frequency	45.0 to 65.0 Hz

DISPLAY, KEY & LED

Display	3 Digit , 3 Line 7 Seg. 0.59"Red LED
Key	Set/Ent , Inc ,Dec/Scroll
LED Indication	A , KA , KV , VLL , VLN , Avg, HZ , L ₁ , L ₂ , L ₃ , PS

DIMENSION

Size (mm)	72 (H) x 72 (W) x 45 (D) mm
Panel Cutout	68 (H) x 68 (W) mm

CALCULATED PARAMETERS

Voltage	VLL , VLN , Avg
Current	All Phase Amp, Avg Amp
Frequency	System Frequency
Load hour	Up to 9999 Hr 59 min
RPM , Phase Sequence Indication	

ACCURACY

Class 0.5 (Standard)

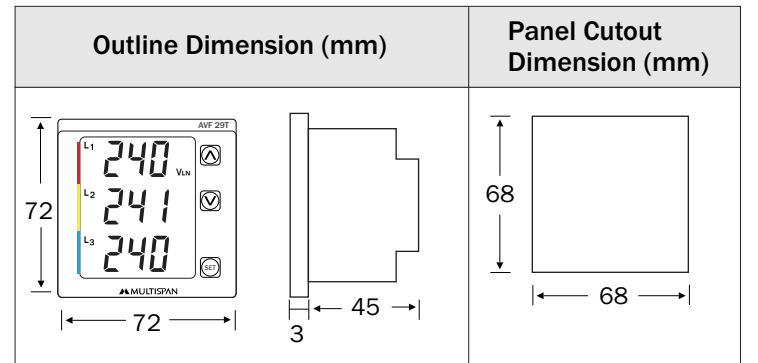
AUXILIARY POWER SUPPLY

Power Supply	100 to 270V AC/DC,50/60Hz
Burden	4VA

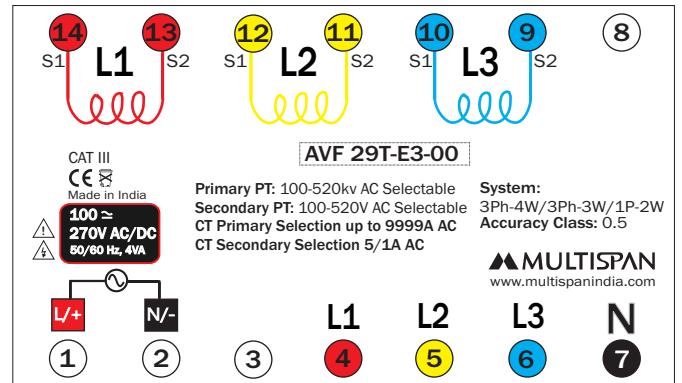
ENVIRONMENTAL CONDITION

Working Temperature	0 to 55 °C
Storage Temperature	0 to 55 °C
Relative Humidity	95 % RH Non- Condensing
Protection Level (As per Request)	IP-65 (Front side As per IS/IEC 60529 : 2001)

MECHANICAL INSTALLATION



TERMINAL CONNECTION

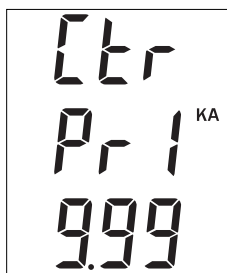


FRONT PANEL DESCRIPTION

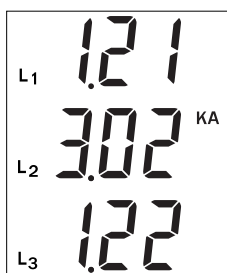
FUNCTION	SYMBOL
Operator mode: To change page Parameter setting mode: To increment value	
To decrement value in Parameter Setting Mode	
To save and exit from menu	
Scroll & hold	

NOTE :-

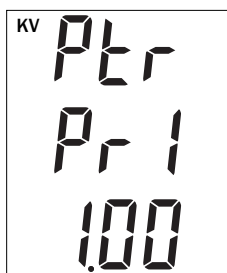
1) In CT Ratio parameter setting if primary C.T is greater than 999 Amp. Then display will shown as below.



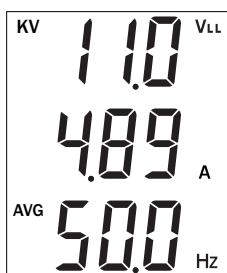
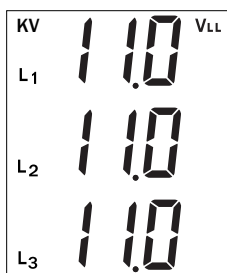
2) If CT Ratio is greater than 999 Amp. then "KA" LED will be turn on and Amp page will be shown as below.



3) In PT Ratio parameter setting if primary PT is greater than 999 Volt. Then "KV" LED will turn on and display will shown as below.



4) If PT Ratio is greater than 999 Volt then "KV" LED will be turn on and Volt page will be shown as below.



PARAMETER SETTING

To CT Ratio/PT Ratio & Network selection

Press **SET ENT** + **▲** key for 3 Second.

P A S

1 9

C t r

CT Ratio

P r 1

Primary

5

(5-9999Amp Selectable)

C t r

CT Ratio

S E C

Secondary

5

(1A/5A)

P t r

PT Ratio

P r 1

Primary

4 1 5

(100V-520KV Selectable)

P t r

PT Ratio

S E C

Secondary

4 1 5

(100V-520V Selectable)

n E t

3 P

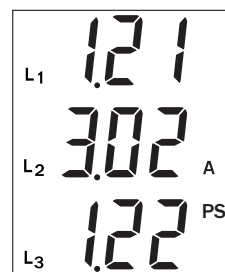
4 "

(3Ø-3W, 3Ø-4W, 1Ø-2W)

Press **SET ENT** key to save & exit

NOTE :-

If Phase Sequence is wrong then "PS" LED will be turn ON.



To Reset Load Hour

Press **SET** + **▲** key For 3 Second.

P A S

[]

3 9



L d H

r S t

y E S

(Yes /No)

Press **SET** key to save & exit

To Load Hour & RPM Enable/Disable

Press **SET** + **▲** key For 3 Second.

P A S

[]

2 9



L d H

Load Hour

[]

E n b

(Enable/Disable)

IF Enable

L O d

P E r

5 (5-50%)

IF Disable

r P n

[]

E n b

(Enable/Disable)

IF Enable

P O L

[]

4 (2-28)

IF Disable

Press **SET** key to save & exit

3Ø-4W NETWORK CONNECTION

1) V_{LL} Page :-

L₁ 450 V_{LL}
L₂ 443
L₃ 431

2) V_{LN} Page :-

L₁ 230 V_{LN}
L₂ 235
L₃ 229

3) Amp Page :-

L₁ 5.01
L₂ 5.02 A
L₃ 5.03

4) V_{LL} Avg Page :-

430 V_{LL}
5.02 A
AVG 50.0 Hz

5) V_{LN} Avg Page :-

230 V_{LN}
5.02 A
AVG 50.0 Hz

6) Load Hour Page :-

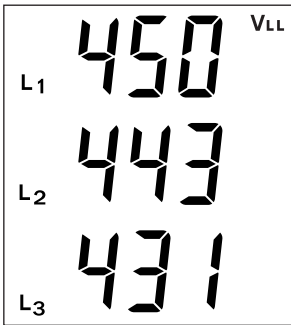
LdH
000
0.06

7) RPM Page :-

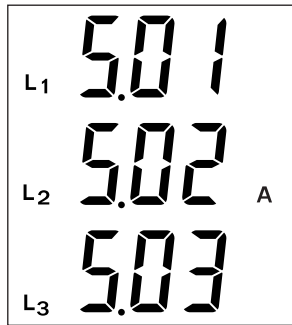
r P n
1
500

3Ø-3W NETWORK CONNECTION

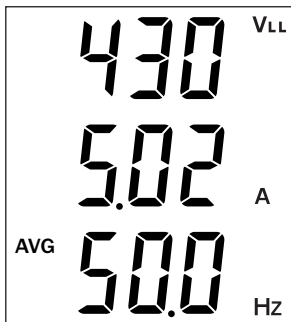
1) V_{LL} Page :-



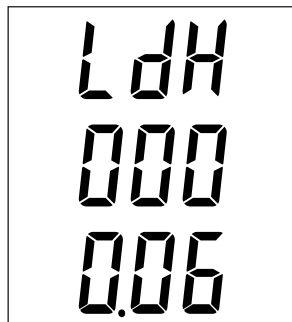
2) Amp Page :-



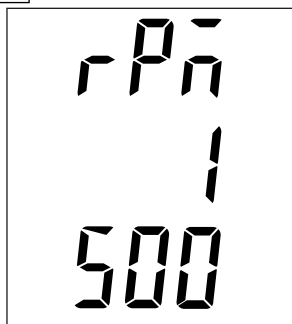
3) V_{LL} Avg Page :-



4) Load Hour Page :-

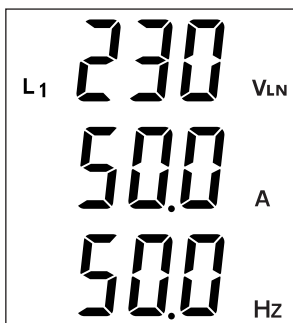


5) RPM Page :-

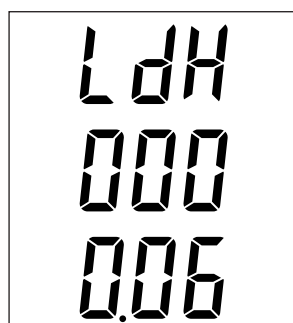


1Ø-2W NETWORK CONNECTION

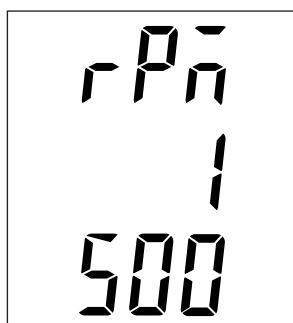
1) Volt, Amp & Freq. Page :-



2) Load Hour Page :-



3) RPM Page :-



MECHANICAL INSTALLATION

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, oil 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.

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.

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.