

Features:

- ▶ 1 Line 4 Digit ultra bright LED display
- ▶ Site Programmable CT and PT ratio (Primary and Secondary)
- ▶ True RMS measurement
- ▶ Password protection
- Optional features
 - a) RS485 Computer Interface
 - b) 60A direct current (External CT module available)
- ▶ Harmonic measurement (Total & Individual)
- ▶ Auto ranging
- ▶ Universal Auxiliary supply

**Advantages:**

- ▶ Cost-effective
- ▶ Accurate reading
- ▶ Long life compared to Analog, as no moving parts
- ▶ Reduce panel space, wiring and installation time
- ▶ Precise onsite display

Applications:

- ▶ Industrial application and Automation
- ▶ Control Panel
- ▶ Equipment Monitoring
- ▶ Distribution Systems
- ▶ Test bench

Measuring Parameters

- ▶ Voltage (L-L) and Average Voltage (L-L)
- ▶ Voltage (L-N) and Average Voltage (L-N)
- ▶ Current (line) and Average Current (line)
- ▶ Power factor (phase) and System Power factor (phase)
- ▶ Power (Active, Reactive and Apparent)
- ▶ System Energy (active)
- ▶ System Frequency
- ▶ Total Harmonic Distortion (Phase wise): Voltage and Current
- ▶ Load hour

Supply Voltage

Auxiliary Supply	90-270V AC/DC (±15%)
Frequency	50/60 Hz

Display

Display	1 row 4 digits, 7 segment LED display
Digit Height	0.56" (14.3mm)
Display Scrolling	Automatic/Manual

Settable Parameters

C.T. Primary	1/5A to 5000A (Programmable)
C.T. Secondary	1/5A (Programmable)
P.T Ratio	Programmable upto 132 kV
Display Reset	Energy

Input Specifications

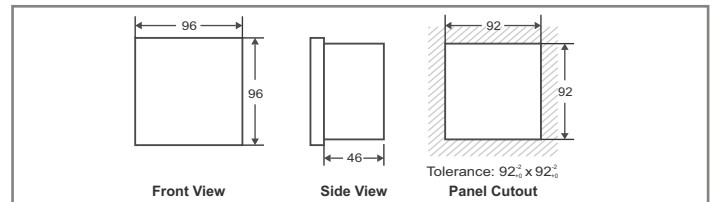
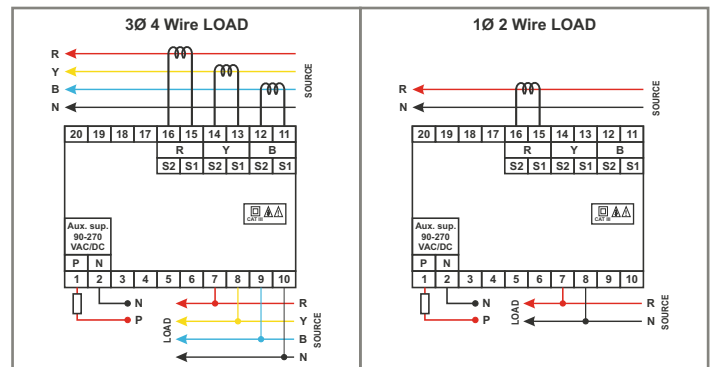
Electrical Connection	3Ø-4 wire/1Ø-2 wire
Input Voltage Range	0-500V AC (L-L)
Input Current Range	0.015A-6A AC
Frequency	45-65 Hz
Resolution	▶ Energy 0.1 kWh ▶ Power factor: 0.001 ▶ Frequency: 0.01 Hz ▶ Voltage: Autoranging ▶ Current: Autoranging ▶ Power: Autoranging ▶ Voltage ±0.5% of F.S. ▶ Current ±0.5% of F.S. ▶ Power Factor ±0.5% of F.S. ▶ Frequency ±0.1% of F.S. ▶ Power (Active, Reactive and Apparent): 1% ▶ Energy (Active, Reactive and Apparent): Class 1
Accuracy	
Burden	Voltage: 0.2 VA max. per input Current: 0.2 VA max. per input Aux. supply: 3 VA max.

Environmental Specifications

Temperature	Operating : -10° to 55°C Storage : -20° to 75°C
Humidity	< 95% RH

Mechanical Specifications

Mounting	Flush Mounting with Side Clamps
Weight	280 g
Enclosure Material	ABS Thermoplastic

Dimension**Connection Diagram****Ordering Information**

Ordering Code	Description	Comm. RS485
VIPS 89	0-5A, CT programmable	
VIPS 89-C	0-5A, CT programmable	✓
VIPS 89-60A-3P-N	0-60A, external CT for 1 phase(N)	

Accessories

Description	Code	Photo
for external CT of 60A programmed for three phase	60A-3P	

Preference of Accessories

The above module to be supplied with 1 meter long Leads	N
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