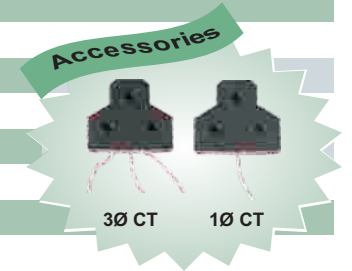




For Dimension refer diagram A on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description		MULTIFUNCTION METER		
Model	VIPS80P (96x96)	VIPS80L (96x96)	VIPS80EL (96x96)	VIPS60 (96x96)
Display	7 segment LED display, 0.39"		Liquid crystal display with backlight	7 segment LED display, 0.56"
Digits	4 rows of 4 digits	4 rows of 4 digits (For parameter) 1 row of 8 digits (For energy) Bargraph for % load current	4 rows of 4 digits (For parameter) 4 rows of 8 digits (For energy)	3 rows of 4 digits
Input Volts	0-500VAC (L-L), 3Ø-4 Wire / 1Ø-2 Wire			
Input Ampere	0.015A-6.00 Ampere AC / Direct 60 Ampere optional			
Resolution	Energy 0.1 kWh, PF 0.001, Hz 0.01 & Auto ranging for Voltage, Current & Power			
CT Primary	Programmable for up to 10000A			
CT Secondary	1A / 5A Programmable			
PT Ratio	Programmable up to 132 kV			
Communication	RS485 Modbus (Optional)			
Auxiliary Supply	90 - 270VAC / DC			
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input			
Update Time	1 Sec			
Scroll	Auto / Manual			
Parameter	V _{LL} (Individual / Average) V _{LN} (Individual / Average), Current (Individual / Average) Phasor angle, Frequency, Power factor (Individual / Average), Phase angle, Active / Reactive / Apparent power (Individual / Total), Maximum demand (kW / kVA), Peak maximum demand (kW / kVA), Active energy, Reactive inductive energy Reactive capacitive energy, Apparent energy (Import & Export) Run hour (Import / Export & Total), THD V (Phase wise), THD I (Phase wise)			V _{LL} (Phase wise), V _{LN} (Phase wise) Ampere (Phase wise), Hz PF (Phase wise), Active / Reactive / Apparent power (Phase wise), Active energy, Run hours, THD V (Phase wise) THD I (Phase wise)
Relay Output	1 C/O relay for Maximum Demand			
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH			



VIPS83P

VIF METER



For Dimension refer diagram A on page no. 19

Dimension / Panel Cutout : 96x96 / 92x 92

Description		1Ø VIF METER	3Ø VIF METER
Model	VIPS83P1 (96x96)	VIPS83P (96x96)	
Display	7 segment LED display, 0.56"		
Digits	3 rows of 3 digits		
Input Volts	0-300VAC (L-N), 1Ø-2 Wire	0-500VAC (L-L), 3Ø-4 Wire / 1Ø-2 Wire	
Input Ampere	0.05 - 6.00 Ampere AC / 60 Ampere direct optional		
Resolution	Hz 0.1 & Auto ranging for Voltage, Current & Power		
CT Primary	Programmable for up to 5000A		
CT Secondary	1 / 5A Programmable		
PT Ratio	---	Upto 132kV	
Auxiliary Supply	90 - 270VAC / DC		
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input		
Update Time	1 Sec		
Scroll	Auto / Manual		
Parameter	VL-N, Ampere, Hz, PF, Active power, Apparent power Run Hour, RPM	VL-L phase wise, VL-N phase wise, Hz, PF Phase wise Active power phase wise, Apparent power phase wise Run Hour, RPM	
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH		

VIPS84 / VIPS84P / VIPS84D DUAL SOURCE

ENERGY METER



For Dimension refer diagram A on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	ENERGY METER				
Model	VIPS84 (96x96)	*VIPS84P (96x96)	VIPS84D DUAL SOURCE (96x96)	VIPS84C (96x96)	VIPS84L (96x96)
Display	7 segment LED display, 0.39"		7 segment LED display, 0.39"	6 digit mech. counter	9 digit LCD display with backlight
Digits	1 row of 8 digits (For energy), 1 rows of 4 digits (For parameter display)		4 rows of 4 digits	1 row of 6 digits	1 row of 9 digits
Input Volts	0-500VAC (L-L), 3Ø-4 Wire / 1Ø-2 Wire				
Input Ampere	0.015A-6.00 Ampere AC / 60 Ampere direct optional				
Resolution	Energy 0.1 kWh, PF 0.001, Hz 0.01 & Auto ranging for Voltage, Current & Power			0.1 kWh	
CT Primary	Programmable for up to 10000A			Programmable up to 5000A	
CT Secondary	1A / 5A Programmable			5A	
PT Ratio	Up to 132 kV			---	
Communication	---	*RS485 MODBUS	RS485	---	
Auxiliary Supply	90 - 270VAC / DC				
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input				
Update Time / Scroll	1 Sec / Auto / Manual				
Parameter	Active energy, VL-L Phase wise, VL-N Phase wise, Hz, PF Phase wise Active, Reactive & Apparent, power phase wise, Load hours THDV Phase wise, THDI Phase wise		VL-L, VL-N Phase wise & Avg. Ampere phase wise & Avg. Hz, PF Phase wise & system, Active, Reactive & Apparent Power phase wise & Total, Active energy, Reactive inductive energy, Reactive capacitive energy, Apparent energy (Mains / DG), Run hours (Mains, DG & Total)		kWh
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH				

Also Available

VIPS 84C
Pulse output optional

VIPS91E / VIPS92E / VIPS999

SINGLE PHASE METER



For Dimension refer diagram A & B on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	1Ø VOLTMETER	1Ø AMPERE METER	1Ø POWER METER
Model	VIPS91E (96x96), VIPS91PE (96x48)	VIPS92E (96x96), VIPS92PE (96x48)	VIPS999 (96x96), VIPS999P (96x48)
Display	7 segment LED display, 0.56"		
Digits	4 digit 1 row		
Input Volts	0-500VAC (L-L), 0-300VAC (L-N)	---	0-300VAC (L-N)
Input Ampere	0.015 - 6.00A / Direct 60 ampere optional		
Resolution	Auto ranging, Hz 0.01	Auto ranging	Energy 0.1 kWh, PF 0.001, Hz 0.01 Auto ranging for volts / ampere & Power
CT Primary	---	Programmable up to 10000A	
CT Secondary	---	1A / 5A Programmable	
PT Ratio	Up to 132 kV	---	Up to 132 kV
Communication	RS485 Modbus (On special request)		
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input		
Update Time	1 Sec		
Scroll	Auto / Manual		
Parameter	Fixed: Volts Auto Scroll: Volts, Hz, THD V	Fixed: Amps Auto Scroll: Amps, Hz, THD I	Volts, Amps, Hz, PF, Active Power, Reactive Power, Apparent Power, Energy, THDV, THDI, Load hours
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH		

VIPS88 / VIPS89 / VIPS883

THREE PHASE METER



For Dimension refer diagram A on page no. 19

Dimension : 96x96 | Panel Cutout : 92x92

Description	3Ø VOLTMETER	3Ø AMPERE METER	3Ø POWER METER
Model	VIPS88 (96x96)	VIPS89 (96x96)	VIPS883 (96x96)
Display	7 segment LED display, 0.56"		
Digits	4 digit 1 rows		
Input Volts	0-500VAC (L-L)	---	0-500VAC (L-L)
Input Ampere	0.015 - 6.00A / Direct 60 ampere optional		
Resolution	Auto ranging, Hz 0.01	Auto ranging	Energy 0.1 kWh, PF 0.001, Hz 0.01 Auto ranging for volts / ampere & Power
CT Primary	---	Programmable up to 10000A	
CT Secondary	---	1A / 5A Programmable	
PT Ratio	Up to 132 kV	---	Up to 132 kV
Communication	RS485 Modbus (Optional)		
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input		
Update Time	1 Sec		
Scroll	Auto / Manual		
Parameter	V L-L, VL-N Phase wise & Avg. Hz, THDV Phase wise & Avg.	Ampere phase wise & Avg. THDI Phase wise & Avg.	VL-L, VL-N Phase wise & Avg. Ampere Phase wise & Avg, Hz, PF Phase wise & system, Active, Reactive, Apparent Power phase wise & Total, Energy THDV, THDI, Load Hours.
Temperature / Humidity	Operating: -10°C to 55°C, Storage: -20°C to 75°C < 95% RH		
Auxiliary Supply	90 - 270VAC / DC		

VIPS-69 / VIPS-27

ANALOG METER



For Dimension refer diagram A & C on page no. 19

Description	SpeciAcation	Model of 96 Sq.	Model of 72 Sq.	Accuracy	
AC Ammeter	From 10A, 15A, 20A, 30A TO 3000A, 5000A	With external CT 1A or 5A	VIPS - 69AAC	VIPS - 27AAC	Class 1.5
	From 0.1A, 0.5A, 1A, 5A, 10A, 25A TO 80A, 100A	AC direct connection			
DC Ammeter	From 50uA, 100uA, 1mA, 5mA 1A, 5A, 10A, 25A, 30A TO 100A	DC direct connection	VIPS - 69ADC	VIPS - 27ADC	Class 1.5
	From 10A, 15A, 20A, 30A, 2500A, 3000A TO 8KA, 10KA	with external shunt 50mV, 60mV OR 75mV			
AC Voltmeter	From 30V, 50V, 100V TO 300V, 500V, 600V	AC direct connection	VIPS - 69VAC	VIPS - 27VAC	Class 1.5
	From 1KV, 2KV, 5KV TO 380KV, 450KV	with external voltage transformer			
DC Voltmeter	From 10V, 20V, 30V TO 500V, 600V, 1000V	DC direct connection	VIPS - 69VDC	VIPS - 27VDC	Class 1.5
	From 1KV, 2KV, 5KV TO 8KV, 9KV, 10KV	With external resistor			
Frequency Meter	Voltage: 110V, 220V, 380V, 440V	VIPS - 69HZ	VIPS - 27HZ	Class 1.0
	Frequency: 45-55Hz, 45-65Hz, 55-65Hz, 47-53Hz				
Power Factor Meter (cos Ø)	Voltage: 110V, 220V, 380V, 440V CURRENT: 1A OR 5A	For 1ØOR 3Ø	VIPS - 69PF	VIPS - 27PF	Class 2.5
	Scale: 0.5cap-1-0.5ind, 0.3cap-1-0.1ind, 0.7cap-1-0.2ind				
Power Meter (kW OR kVAr)	Voltage: 110V, 220V, 380V, 440V Current: 1A OR 5A	For 1P1W, 3P3W, 3P4W	VIPS - 69KW	VIPS - 27KW	Class 1.5
		With CT or voltage transformer			
Maximum Demands Ammeter	15MIN 5A, OR 15MIN 1A	Changeable scale	VIPS - 69AMD	VIPS - 27AMD	Class 3.0



Dimension : 122 x 122 x 86 (L x W x D mm)
 Panel Cutout : 118 x 118 x 82 (L x W x D mm)

Description	PF / KVAR CONTROLLER
Model	VIPS-108
Display	7 segment LED display, 0.56"
Digits	1 row of 4 digits
Input Volts	0-500VAC (L-L), 3Ø-4 Wire
Input Ampere	0.05 - 6.00 Ampere AC
Resolution	PF 0.001
CT Primary	Programmable for up to 5000A
CT Secondary	5A
No. of Steps	4 / 6 / 8 / 12 & 16
Auxiliary Supply	415VAC (+15% -25%)
Burden	3VA Max. for Auxiliary supply, 0.2VA for Voltage & Current input
Update Time	1 Sec
Mode of Operation	Auto / Manual
Temperature / Humidity	Operating: -10° C to 55° C, Storage: -20° C to + 75° C, < 95% RH



For Dimension refer diagram B on page no. 19

Description	DC VOLTMETER	DC AMMETER
Model	VIPS 91PD (48x96)	VIPS 92PD (48x96)
Display	7 segment LED display	
Digits	4 digits 1 row	
Auxiliary Supply	90-270 VAC/DC	
Input	±0-1 V, 0-5V, 0-10 V, 0-200V, 0-300V, 0-1000V	±0-75mV (shunt), (Shunt ratio programmable)
Accuracy	Class 1	
Resolution	Programmable / Auto Ranging	
Update Time	1 sec	
Temperature	-10 to 55 deg C	
Humidity	< 95% RH	