

ENERGY SINGLE PHASE AC PANEL METER VOLT / AMP METER



MODEL	DVM-9611/DAM-9611	DVM-7211/DAM-7211	DVM-4911/DAM-4911	DVM-4811/DAM-4811
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 85	48 X 96 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	5A AC Direct			
Ampere (AC)	Primary: 5/5 to 5000/5A AC			
CT Ratio	30 to 500V AC			
Volatge (AC)				
SPECIFICATION	Class 1.0			
Accuracy	230V AC $\pm 10\%$, 50Hz			
Power Supply				
Note	30A AC Direct CT Available at back side (DAM 9612, DAM 7212, DAM 4912, DAM 4812)			

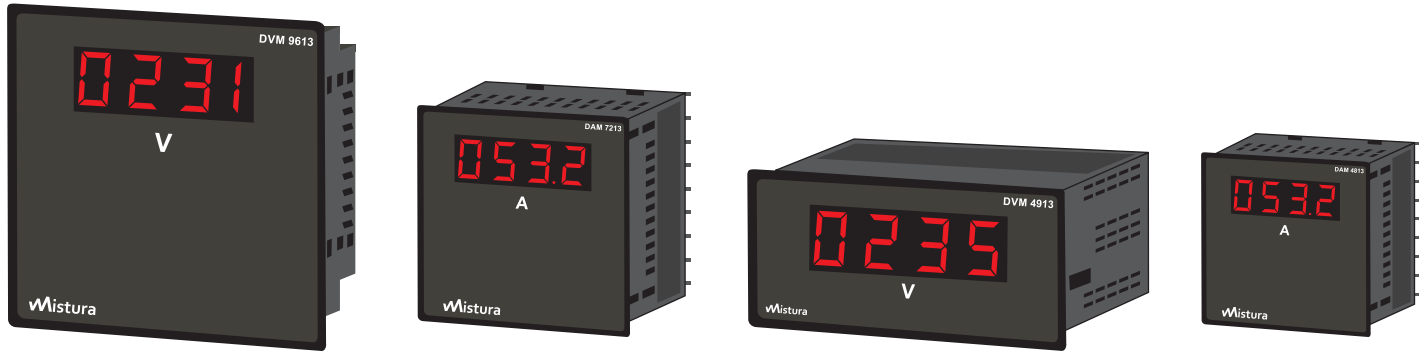
SINGLE PHASE AC PANEL METER VOLT + AMP METER



MODEL	AV-9611	AV-7211	AV-4911
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 85
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92
INPUT	CT Ratio selection upto 5000/5 Amp		
Current Input	30 to 500V AC		
Voltage Input			
SPECIFICATION	Class 1.0		
Accuracy	230V AC $\pm 10\%$, 50Hz		
Power Supply			
Note	30A AC Direct CT Available at back side (AV 9612, AV 7212, AV 4912)		

ENERGY DC PANEL METER

DC VOLT / AMP Meter



MODEL	DVM/DAM-9613	DVM/DAM-7213	DVM/DAM-4913	DVM/DAM-4813
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 85	48 X 48 X 70
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92	44 X 44
INPUT	Ampere (AC) 0 to 9999 Ampere DC Through 75mV DC external shunt			
	Volatge (AC) 19.99V DC / 49.99V DC / 99.99V DC / 199.9V DC / 750V DC (Factory set)			
SPECIFICATION	Accuracy $\pm 1\%$ Of Full Range ± 1 Count			
	Power Supply 230V AC $\pm 10\%$, 50Hz			

SINGLE PHASE DC PANEL METER



MODEL	AV-9613	AV-7213	AV-4913
Dimension (HxWxD) mm	96 X 96 X 42	72 X 72 X 60	48 X 96 X 85
Panel Cutout (mm)	92 X 92	68 X 68	44 X 92
INPUT	Ampere (AC) 0 to 9999 Ampere DC Through 75mV DC external shunt		
	Volatge (AC) 0 to 1000V DC		
	Watt (DC) 0000 to 7499 KW DC		
SPECIFICATION	Accuracy $\pm 1\%$ Of Full Range ± 1 Count		
	Power Supply 85-270V AC, 50/60 Hz		

ENERGY 3 PHASE PANEL METER AVF Meter



MODEL	AVF-9611
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
INPUT	Input Signal Voltage Current
PARAMETER	3Ø 4 Wire / 3Ø 3Wire / 1Ø 2 Wire 300V AC (L-N) / 520V AC (P-P) 5/5A to 6000/5A CT Ratio Selectable
SPECIFICATION	Voltage (P-P), Voltage (P-N), Average Voltage (P-P), Average Current (R,Y & B), Average Voltage (P-N) Line Current (R,Y & B), Frequency, RPM, Load Hour, No Load Hour
Accuracy	Class 1.0
Power Supply	230V AC ±10%, 50Hz

3 PHASE PANEL METER VOLT / AMP Meter



MODEL	VOLT-9611	AMP-9611
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
PARAMETERS	Input Signal Volatge (AC) Ampere (AC)	current 0.5A to 5A Primary 5A to 5000 AC Secondary 5A
SPECIFICATION	Accuracy Power Supply	Class 1.0 230V AC ± 10%, 50Hz

ENERGY ENERGY & POWER METER

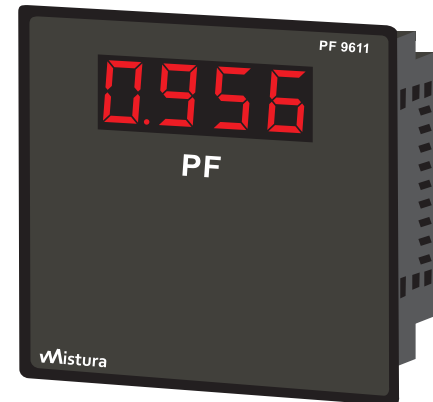


MODEL	EPM-9611	EPM-9601
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
INPUT	Input Signal Voltage Current	Input Signal Voltage Current
SPECIFICATION	Reset Measuring Range Accuracy Power Supply	Reset Measuring Range Accuracy Power Supply

PANEL METER Watt Meter



POWER FACTOR METER



MODEL	WM-9611/WM-9612
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
INPUT	Input Signal Voltage Current
CT Selection Secondary Function	5A/1A (Configurable)
SPECIFICATION	Measuring Range Accuracy Power Supply
Note	Also available in 199.9 Watt Range 1 Relay on KW is available in WM-11

MODEL	PF-9611/PF-9612
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
INPUT	Input Signal Voltage Current
SPECIFICATION	Accuracy Power Supply

ENERGY MULTI FUNCTION METER

With RS-485 MODBUS



MODEL	AVH-9611
Dimension (HxWxD) mm	96 X 96 X 50
Panel Cutout (mm)	92 X 92
INPUT	
Input Signal	3Ø 3 Wire / 3Ø 4Wire
Voltage	300V AC (L-N) / 520V AC (P-P)
Current	5/5A to 4000/5A CT Ratio Selectable
PARAMETER	
Voltage (L-L)	50 - 520V AC
Voltage (L-N)	30 - 300V AC
Current (~A)	5/5A to 4000/5A CT Ratio Selectable
KW Total	0.000 - 9999 KW
KW Per Phase	0.000 - 9999 KW
KWH Total	000.000 - 999999 KWH
Power Factor Average (PF)	0.100 - 1.000
Power Factor per phase (PF)	0.100 - 1.000
KVA Total	0.000 - 9999 KVA
Frequency (Hz)	45 - 65 Hz
KVAr Total	0.000 - 9999 KVAR
Load hours	9999.59 Hrs/Min.
No load hours	9999.59 Hrs/Min.
RPM	1500 RPM
COMMUNICATION	
	RS-485 MODBUS (Optional)
SPECIFICATION	
Accuracy	Class 1.0
Power Supply	230V AC ±10%, 50Hz

ENERGY PROTECTION DEVICE - 3 PHASE



MODEL	MPD-9611	MPD-500
Dimension (HxWxD) mm	96 X 96 X 50	75 X 55 X 110
INPUT	Panel Cutout (mm) 92 x 92 Input Singal 3Ø 4W / 3Ø 3W Voltage 50 - 520V AC (L-L), 30 - 300V AC (L-N) Current 60mA to 5A (CT Selection 5A-2000A Ac) (Additional Leakage Current Measurement thru CBCT)	Din Rail Mounting
OUTPUT	1st Relay (NO-C-NC) 10A, 230V AC, (resistive load) 2nd Relay (NO-C) 5A (with simultaneous actuation)	1st Relay (NO-C-NC)
PARAMETER	Tripping Facility Over Current Under Current Short Circuit Lock Rotor Point Earth Leakage Over Voltage Over Voltage Phase Sequence Unbalance Over Frequency Over Frequency Phase Loss Neutral Loss	
SPECIFICATION	Accuracy Class 1.0 Power Supply 85 to 270V AC (SMPS), 50/60Hz Note MPD-9611 is also available in 415V AC + 10%, 50Hz Power Supply (ON Request) RS-485 MODBUS Communication (Optional) Earth leakage features are available (Optional) CBCT Available As per Required Inner Diameter External CT 30A, 60A, 100A Available As per Request	

SINGLE PHASE - CURRENT CONTROLLER



MODEL	CC-9611	CC-9612
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50
Panel Cutout (mm)	92 X 92	92 X 92
INPUT	Input Signal 1Ø 2Wire Current 5 - 2000A/5A	
OUTPUT	1 Relay 5A, 230V AC (Resistive Load)	
PARAMETER	Tripping Facility High / Low / Inband / Outband / Absolute Low / Absolute Outband Alarm (Configurable) Accuracy ±1% of FSD Power Supply 85 to 270V AC (SMPS), 50/60Hz	

EARTH TO NEUTRAL VOLTAGE



MODEL	ENV-9611	ELR-9611	ELR-500
Dimension (HxWxD) mm	96 X 96 X 50	96 X 96 X 50	110 X 35 X 73
Panel Cutout (mm)	92 X 92	92 X 92	Din Rail Mounting
INPUT			
Input Signal	0 To 10V AC	30mA To 30AMP AC thru external CBCT	30mA To 30AMP AC thru external CBCT
OUTPUT			
Output	1 Relay 1 C/O contact 230V AC, 5A	1 Relay (NO-C-NC) 5A, 230V AC (resistive load)	1 Relay (NO-C-NC) 5A, 230V AC (resistive load)
SPECIFICATION			
Accuracy	Class 0.5	Class 0.5	Class 0.5
Power Supply	85 to 270V AC, 50/60 Hz, Approx 4VA	85 to 270V AC, 50/60 Hz, Approx 4VA	85 to 270V AC, 50/60 Hz, Approx 4VA
Note	RS-485 MODBUS available as per request	RS-485 MODBUS available as per request,	

EARTH FAULT RELAY



MODEL	EFR-9611	EFR-500
Dimension (HxWxD) mm	96 X 96 X 50	110 X 35 X 73
Panel Cutout (mm)	92 X 92	Din Rail Mounting
INPUT		
Input Signal	5AMP form CBCT OR CT	5AMP form CBCT OR CT
OUTPUT		
Output	1 Relay (NO-C-NC) 5A, 230V AC (resistive load)	1 Relay (NO-C-NC) 5A, 230V AC (resistive load)
SPECIFICATION		
Accuracy	Class 0.5	Class 0.5
Power Supply	85 to 270V AC, 50/60 Hz, Approx 4VA	85 to 270V AC, 50/60 Hz, Approx 4VA
Note	RS-485 MODBUS available as per request,	

ENERGY PROTECTION DEVICE - 3 PHASE



MODEL	VPR-500	CPR-500-3	CPR-500	
Dimension (HxWxD) mm	110 X 35 X 73	110 X 35 X 73	110 X 35 X 73	
INPUT	Mounting	Din Rail Mounting		
	Input Singal Voltage	3Ø 3W / 3Ø 4W 30 to 300V AC (L-N), 50 to 520V AC (L-L)	3Ø 3W	1Ø 2W
OUTPUT	Current		0.1 to 5Amp (CT Selection 5/5 to 999/5A AC)	
	Tripping Facility	1st Relay (NO-C-NC) 2nd Relay (NO-C-NC) (Optional)	1st Relay (NO-C-NC)	
PARAMETER	Accuracy	Over Voltage, Under Voltage Over Frequency, Under Frequency Phase Loss, Phase Sequence Asymmetry & Neutral Loss	Over Current Under Current Asymmetry Single Phase Preventer (SSP)	Over Current Under Current
	Power Supply	Class 1.0 100 to 270V AC (SMPS), 50/60Hz	Class 1.0 100 to 270V AC (SMPS), 50/60Hz	
NOTE	External CT 30A, 60A, 100A Available with CPR-500-3 & CPR-500-1C As per Request			



MODEL	VPR-100	PSR-100	CPR-100	
Dimension (HxWxD) mm	75 X 22.5 X 100	75 X 22.5 X 100	75 X 22.5 X 100	
INPUT	Mounting	Din Rail Mounting		
	Input Singal Voltage	3Ø-3W 280-520V AC (L-L)	3Ø-3W 280 to 520V AC (L-L)	1Ø-2W
OUTPUT	Current		0.1 to 5Amp (CT Selection 5/5 to 999/5A AC)	
	Tripping Facility	1st Relay (NO-C-NC)	1st Relay (NO-C-NC)	
PARAMETER	Accuracy	Over Voltage, Under Voltage Phase Asymmetry, Phase Sequence Phase Loss	Phase Loss, Phase Sequence Phase Asymmetry	Over Current Under Current
	Power Supply	No Power supply to be given separately		85-270V AC, 50/60 Hz