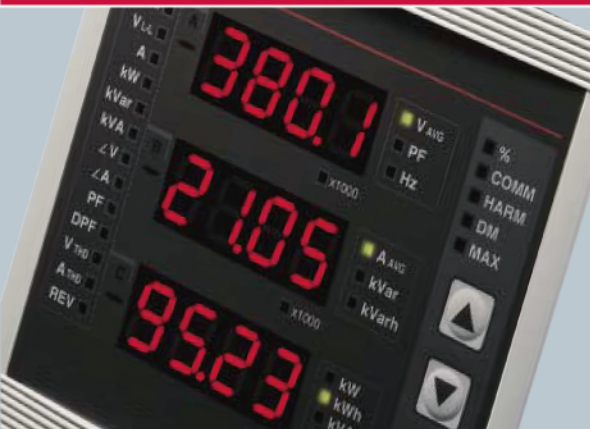


Smart-MEC

Digital Power Meter GIMAC-i



Electric Equipment



Digital Power Meter



Various measurement functions
High accuracy (0.3%) (0.2%F.S)



MODBUS/RS-485



Compact size (144 × 144 × 85mm)
- DIN 96 & ANSI"4 cutout size



Control voltage AC/DC 88~264V



Wide voltage range
- AC 10 ~ 452V



Protecting mis-wiring

Ratings

Type		GIMAC- i
Wiring		1P2W, 1P3W, 3P3W, 3P4W
Input	Frequency	60Hz, 50Hz
	PT (V)	10~452V
	CT (A)	0.05~6A (Ratings : 5A)
	Control Power	AC/DC 88~264V (Free voltage)
	Power	Under 2W
	Input Burden	PT : Under 0.5VA CT : Under 0.5VA
Insulation Resistance		Over DC 500V 100MΩ
Insulation Voltage		AC 2KV/1min.
Impulse Voltage		Over AC6kV, 1.2x50us
Lightening surge		Over AC 6kV(3kV), 1.2x50us
Over Load Endurance	Current circuit	2In : More than 3hour 20In : More than 2s
	Voltage circuit	1.15Vn : More than 3hour
Fast Transient Disturbance		Power input 4kV(PT,CT)
Electrostatic Discharge		Air 8kV Contact 6kV
Temperature (Oper.)		-10°C~55°C
Temperature (Stor.)		-25°C~70°C
Humidity		Under 80%
Standard		IEC60255, IEC61000-4
Communication		MODBUS/RS-485, 422
Altitude		1000m and below
Others		Non-impact place Non-air pollution place
Dimension (W x H x D)		144 x 144 x 85 (mm)
Weight		0.52kg

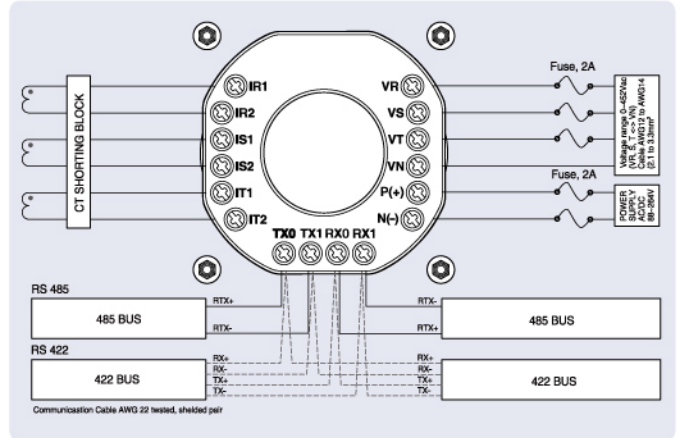
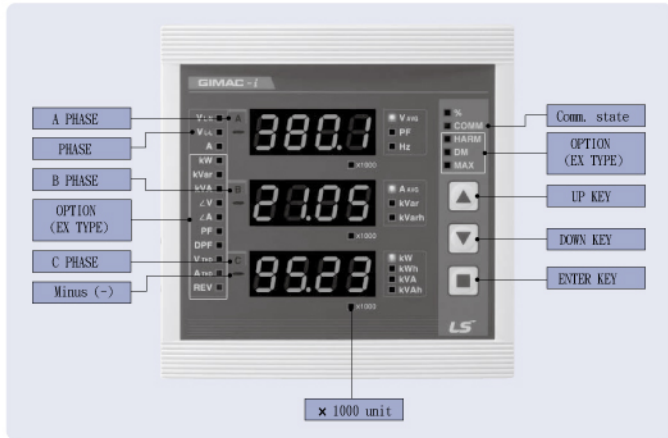
Self-diagnosis

Item	LED display
Mis-wiring	Conn Chc (connection check)
Memory error	ERROR 1
Power fail	ERROR 2
Option error	ERROE 3
Setting error	ERROR 4
Calibration error	ERROR 5

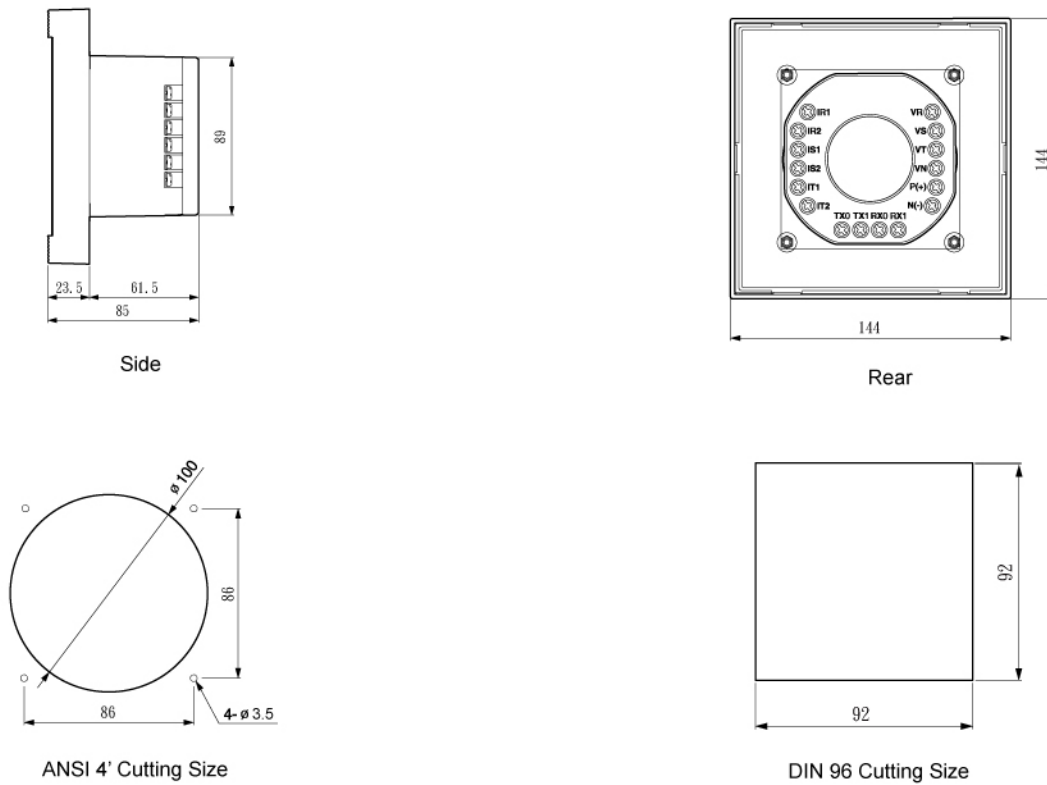
Measurement

	Measuring	Detail	Normal (No)	Exten. (Ex)	Accuracy (F.S)	Remark
Voltage	Average Voltage	Vavg	■	■	±0.30%(±0.2%)	-
	Line Voltage	Vab, Vbc, Vca	■	■	±0.30%(±0.2%)	-
	Phase Voltage	Va, Vb, Vc	■	■	±0.30%(±0.2%)	-
Current	Average Current	Iavg	■	■	±0.30%(±0.2%)	-
	Line Current	Ia, Ib, Ic	■	■	±0.30%(±0.2%)	-
	Load Factor	Ia, Ib, Ic	■	■	-	-
Phase	Line Voltage	<VabVbc, <VabVca	-	■	±0.5°	3P3W
	Line and Current	<VabIa, <VablIb, <VablIc	-	■	±0.5°	3P3W
	Phase Voltage	<VaVb, <VaVc	-	■	±0.5°	3P4W
	Phase Voltage and Current	<Vala, <VblIb, <VclIc	-	■	±0.5°	3P4W
Power	Total Active Power	P	■	■	±0.5%	IEC1036
	Phase Active Power	Pa, Pb, Pc	-	■	±0.5%	IEC1036
	Total Reactive Power	Q	■	■	±0.5%	IEC1036
	Phase Reative Power	Qa, Qb, Qc	-	■	±0.5%	IEC1036
	Total Apparent Power	S	■	■	±0.5%	IEC1036
	Phase Apparent Power	Sa, Sb, Sc	-	■	±0.5%	IEC1036
Watt Hour (Energy)	Active Power	Wh	■	■	±0.5%	IEC1036
	Reactive Power	Varh	■	■	±0.5%	IEC1036
	Reverse Active Power	rWh	-	■	±0.5%	IEC1036
	Reverse Reactive Power	rVarh	-	■	±0.5%	IEC1036
	Apparent Power	Vah	■	■	±0.5%	IEC1036
Freq	Frequency	Hz	■	■	0.05Hz	-
PF	Total Power Factor (PF)	PF	■	■	-	+:Lag -:Lead
	Phase PF	PFa, PFb, PFc	-	■	-	
	Phase Pulse PF	DPFa, DPFB, DPFC	-	■	-	
THD	Voltage THD	Va(ab), Vb(bc), Vc(ca) THD	-	■	-	-
	Current THD	THD of Ia, Ib, Ic	-	■	-	-
Harmonic	Voltage Harmonic	Va(ab), Vb(bc), Vc(ca) 1 st ~15 th	-	■	-	-
	Current Harmonic	Ia, Ib, Ic 1 st ~15 th harmonic	-	■	-	-
Demand	Active Power	Demand W	-	■	-	-
	Current Demand	Demand Ia,Ib,Ic,Iavg	-	■	-	-
Max	Current	max Ia, max Ib, max Ic, max Iavg	=	■	-	-
	Voltage THD	max Va(ab) THD, max Vb(bc) THD max Vc(ca) THD	-	■	-	-
	Current THD	max Ia THD, max Ib THD, max Ic THD	-	■	-	-
	Active Power	Max W	-	■	-	-
	Reactive Power	Max VAR	-	■	-	-
	Apparent Power	Max VA	-	■	-	-
	Demand	Max Demand Iavg, Ia, Ib, Ic				
	Max Demand W		-	■	-	-

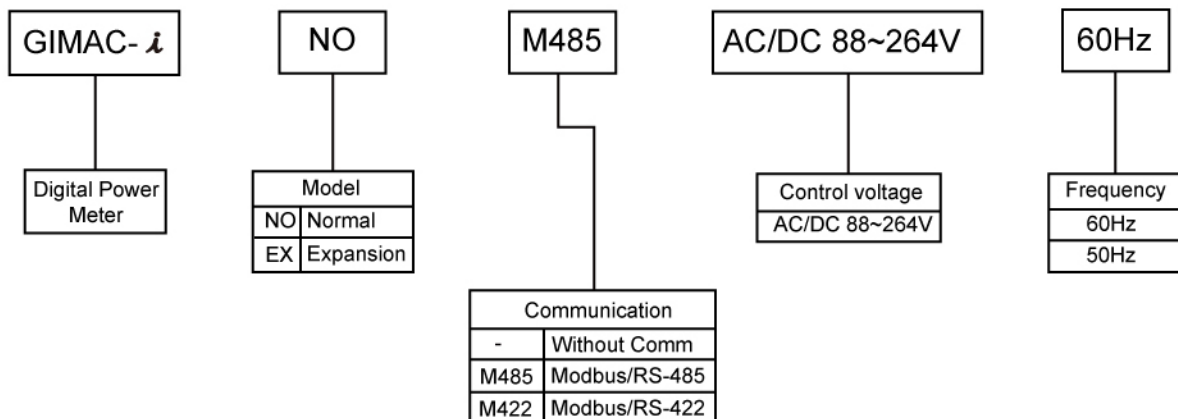
External



Dimension

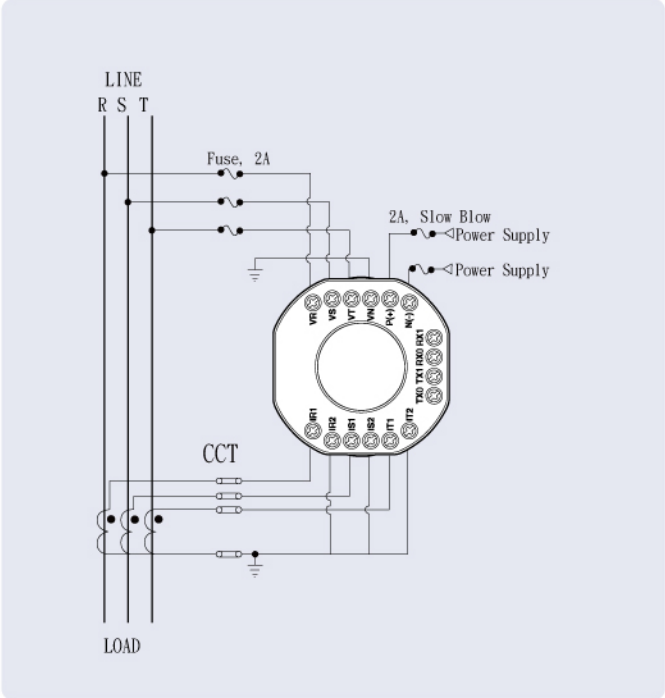


Ordering

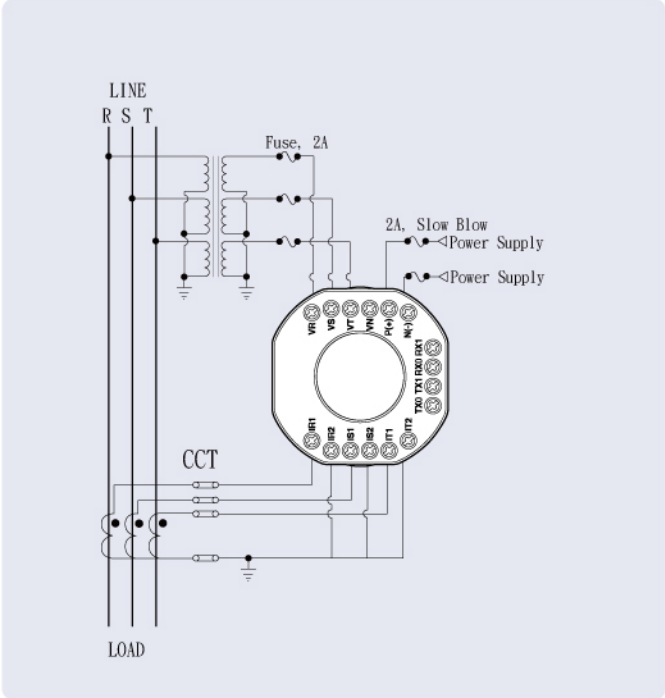


Wirings

3P4W

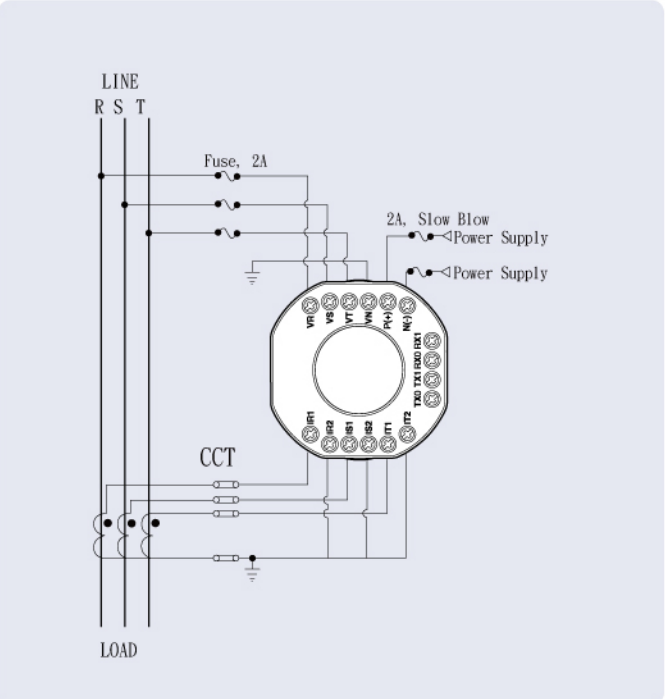


Direct wiring

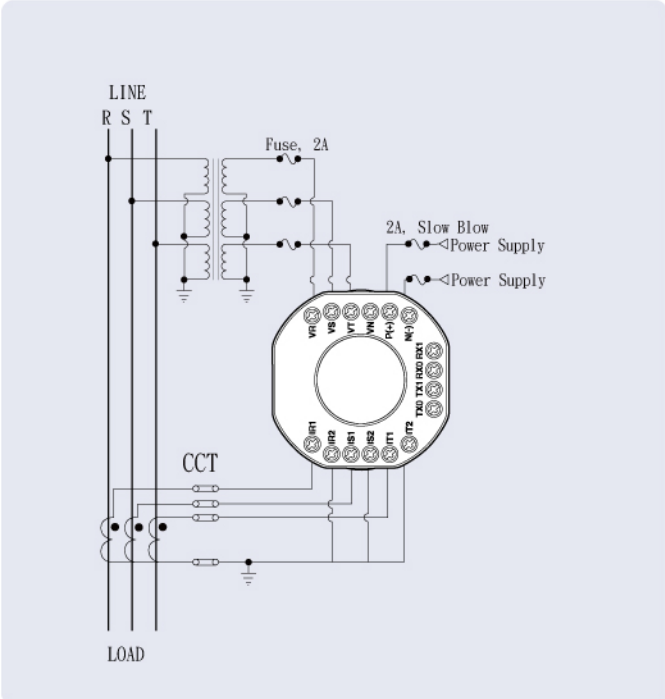


PT application

3P3W



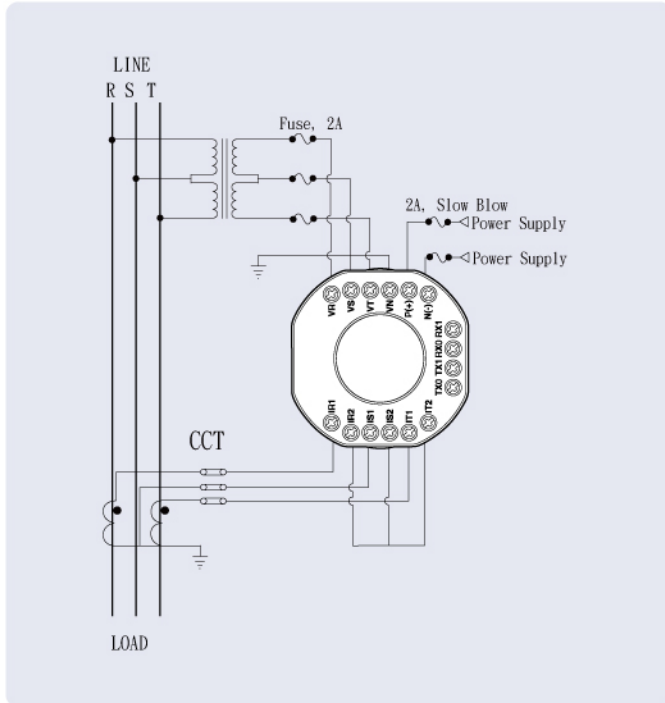
Direct wiring



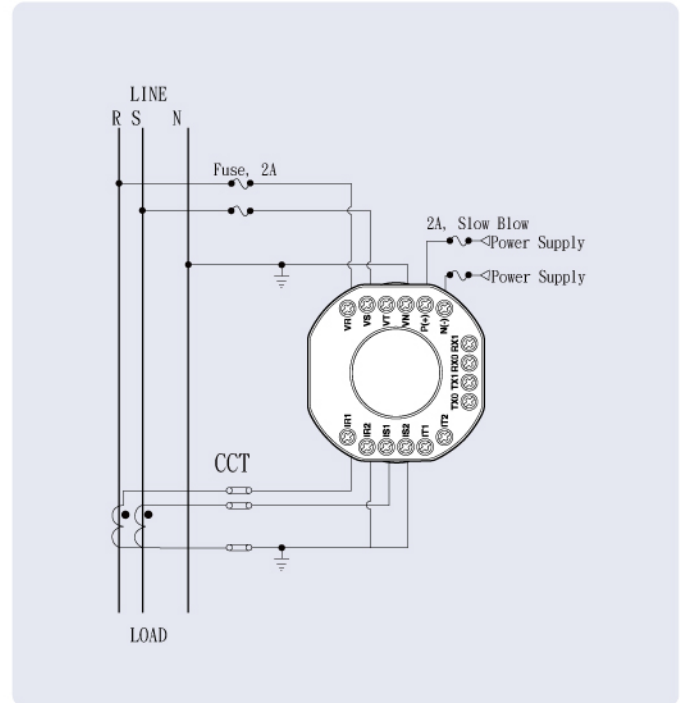
PT application

Wirings

3P3W (Open Delta)



1P 3W



1P 2W

