

5 位數頻率錶 (5 DIGITAL FREQUENCY METER)

MODEL
MF



■特點(FEATURES)

- 精確度0.01%滿刻度 (Accuracy 0.01% F.S.)
- 可量測 交流頻率/直流脈波頻率 (Measuring AC Frequency,Pulse(TTL,CMOS) Frequency)
- 最大輸入頻率 50KHz(Accepts input rates up to 50KHz)
- 小數點位置可任意規劃(Decimal point can be modified)
- 尺寸小、穩定性高(Dimension small and High stability)

1.MODEL:MF-□ □ □ (選購型號)

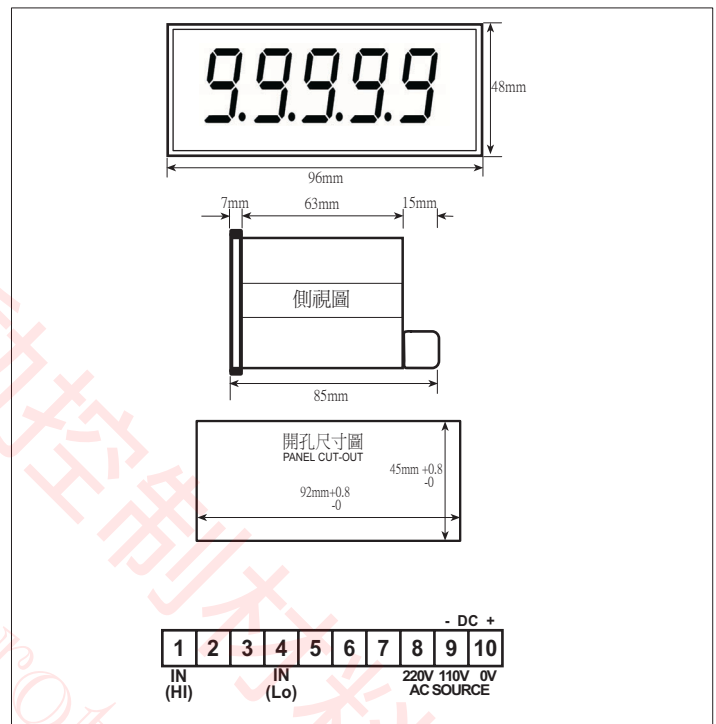
NO	Input Frequency	NO	Input Level	NO	Aux. Power
A	0~99.999 Hz	1	Pulse(TTL)	A	AC110V/220V
B	0~999.99 Hz	2	Pulse(CMOS)	O	SPECIFIED
C	0~9999.9 Hz	3	AC 2-60V		
D	0~49999 Hz	4	AC 50-600V		
E	SPECIFIED	9	SPECIFIED		

•±20% of rate less
3VA for AC input
(50/60Hz)

2:SPECIFICATION (主要規格)

- Measuring accuracy : 0.01% F.S. (23±5°C)
(精確度)
- Sampling time : 10 cycles/sec. (>10Hz)
(取樣時間) f cycles/sec. (<10Hz)
- Input impedance : >2M ohm or more
(輸入阻抗)
- Max. input over : 1.5 x rated continuous
(過載能力) 2 x rated 30 seconds
- Over input indication : " doFL "
(過載顯示)
- Readout range : 0~99999 digit adjustable
(顯示值範圍)
- Parameter setting : Touch switches
(參數設方式)
- Display : Red high efficiency LEDs high
(顯示幕) 14.22mm (0.56")
- Dielectric strength : 2KVac/1 min. (input/power)
(絕緣耐壓能力)
- Surge test : ANSI C37.90a/1974, DIN-IEC255-4
(突波測試) impulse voltage 4KV (1.2 x 50us)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
(CE認證) EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRA (外型尺寸與開孔尺寸與配線圖)



4.ORDERING INFORMATION (訂購方式)

MODEL:MF-B4A

- Input Frequency : 0~999.99Hz
(輸入頻率範圍)
- Input Level : AC 50~600V
(輸入信號範圍)
- Aux. power supper : AC110V or 220V±20%(50 or 60Hz)
(輔助電源)

微電腦型交流電力控制電錶 (MICROPROCESS AC POWER CONTROLLER METER)

MODEL
MMP



■特點(FEATURES)

- 精確度0.25%滿刻度±1位數(Accuracy 0.25% F.S.±1 digit)
- 可量測交流瓦特/乏爾/功率因數/相角(Measuring watt/var/power factor/phase angel)
- 顯示範圍0~±19999可任意規劃(Programmable rate 0 to±19999 digit)
- 輸入與輸出絕緣耐壓 2仟伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output/power))
- 突波測試強度4仟伏特(1.2x50us)(surage test 4KV(1.2x50us))
- 2組警報功能(Dual alarm function)(Optional)
- 15BIT 類比輸出功能(15 bit DAC analog output function)(Optional)
- 數位RS-485界面(Digit RS-485 interface function)(Optional)

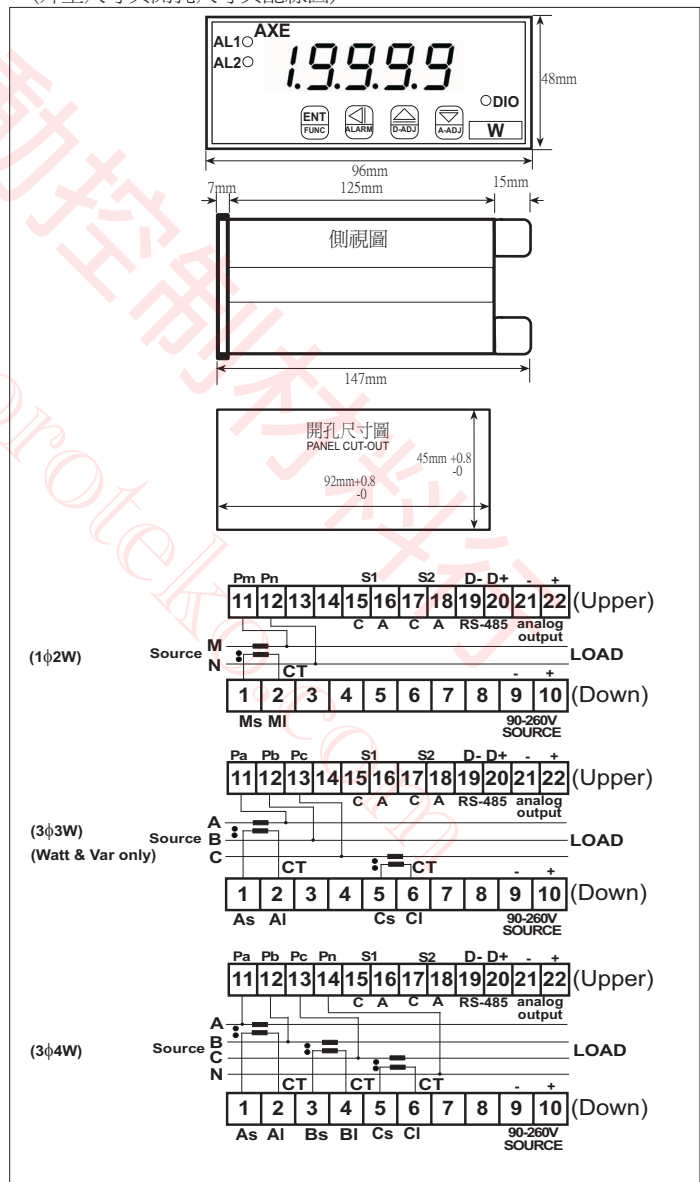
1.MODEL:MMP-□□-□□-□□□□
(選購型號)

NO	Input Type	NO	Input unit	NO	Input Voltage	NO	Input Current	NO	Input Frequency	NO	Alarm	NO	Analog	NO	RS-485	NO	Aux. Power
W	Watt	1	1φ2W	1	0~120V	1	0~1A	A	50Hz	0	None	N	None	N	None	A	AC/DC18~60V
V	Var	3	3φ3W	2	0~240V	2	0~5A	B	60Hz	1	One	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
F	Power Factor	4	3φ4W	3	0~400V	9	SPECIFIED	C	400Hz	2	Two	V	DC0~10V		•Modbus mode		•Less 4VA for AC/DC input
A	Phase Angel	9	SPECIFIED		•Voltage±30%				•Frequency±10%			R	SPECIFIED				

2.SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.25% F.S.(Watt,Var,phase angle) (23±5°C) 0.25% F.S.±0.25°(Power Factor)
- Input burden (輸入負載) : <0.2VA (Voltage) <0.2VA (Current)
- Maximum input over (最大過載能力) : Current related input: 3 x rated continuous Voltage related input: maximum 2 x rated continuous
- Over input indication (過載顯示) : "doFL" or "-doFL"
- Readout range (顯示值範圍) : 0~±19999 digit adjustable(MMP-W/V/A) -0.300~-1.000~+1.000~+0.300cosθ(MMP-F)
- Alarm action (繼電器動作方向) : HI or Lo adjustable
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- Analog output resolution (類比輸出解析度) : 15 bit DAC
- Response time (輸出反應速度) : < 250ms(0~90%)
- Output drive capability (輸出負載能力) : < 10mA for voltage mode < 10V for current mode
- Output ripple (p-p) (輸出之漣波) : < 0.1% F.S.
- RS-485 address (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 100ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 14.22mm(0.56")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
- Surge test (突波測試) : ANSI c37.90a/1974,DIN-IEC 255-4 impulse voltage 4KV(1.2x50us)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001 EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)



微電腦型交流瓦特/瓦特小時/(乏爾/乏爾小時)控制電錶

MODEL MPH

(MICROPROCESS WATT/WATTHOUR(VAR/VARHOUR) CONTROLLER METER)



■特點(FEATURES)

- 精確度0.25%滿刻度±1位數(Accuracy 0.25%F.S.±1digit)
- 顯示範圍0至19999(瞬間量),0至999999999(九位數累積量)可任意規劃 (Programmable rate 0 to 19999 digit (rate),0 to 999999999 digit (totalizer))
- 瞬間量之最高顯示值可任意規劃(0至19999)(Programmable rate 0 to 19999 digit)
- 累積量之積算比例可任意規劃(0.00001至9999.99999) (Programmable scale factor (0.00001 to 9999.99999) (totalizer))
- 輸入與輸出絕緣耐壓2仟伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output/power))
- 突波測試強度4仟伏特(1.2x50us)(Surage test 4KV(1.2x50us))
- 二組警報功能(Dual alarm function) (Optional)
- 15 BIT 隔離類比輸出(15 bit DAC isolating analog output function) (Optional)
- 數位 RS-485 界面(Digit RS-485 interface function) (Optional)
- 數位脈波輸出(Digit pulse output function) (Optional)

1. MODEL: MPH- - -

(選購型號)

NO	Input Type	NO	Input unit	NO	Input Voltage	NO	Input Current	NO	Input Frequency	NO	Alarm	NO	Analog	NO	RS-485	NO	Pulse	NO	Aux. Power
W	Watt	1	1φ2W	1	0~120V	1	0~1A	A	50Hz	0	None	N	None	N	None	N	None	A	AC/DC18~60V
	Watthour	3	3φ3W	2	0~240V	2	0~5A	B	60Hz	1	One	I	DC4~20mA	Y	RS-485	Y	1pulse/count	B	AC/DC90~260V
V	Var	4	3φ4W	3	0~400V	9	SPECIFIED	C	400Hz	2	Two	V	DC0~10V						
	Varhour	9	SPECIFIED		*Voltage±30%				*Frequency±10%		*Pulse output only one alarm	T	DC4~20mA		*Modbus mode		*Standard open collector(Max. DC30V,<40mA)		*Less 5VA for AC/DC input

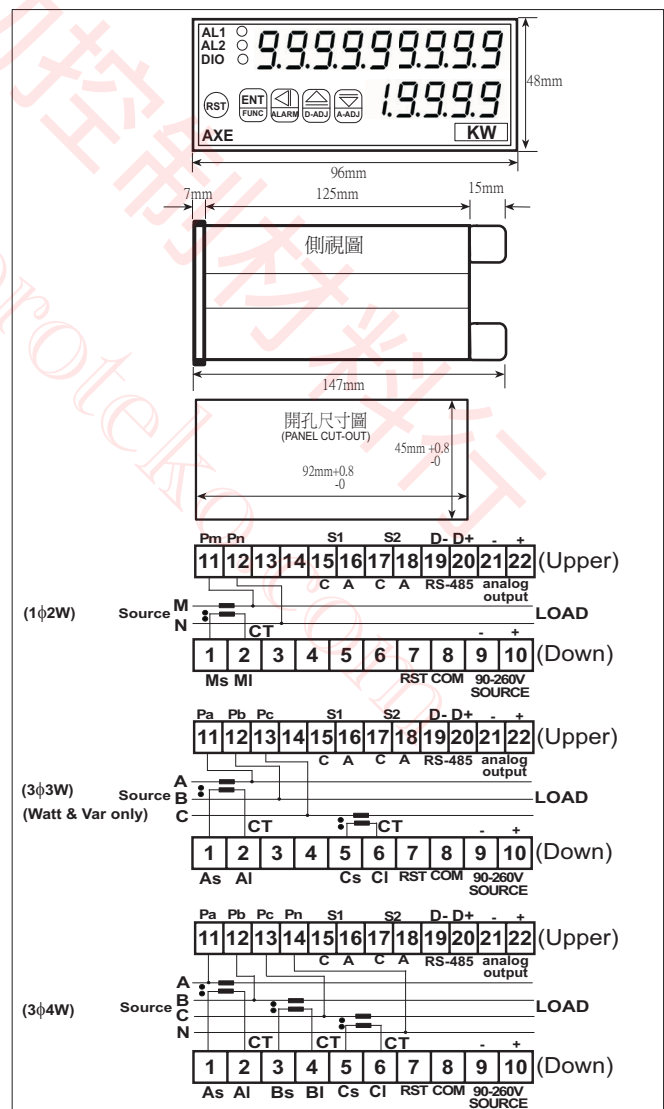
•Two-wire transmitter (Exciting voltage DC10~36V)

2. SPECIFICATION (主要規格)

- Measuring accuracy : 0.25% F.S.±1 digit (rate) (23±5°C) (精確度)
- Over input indication : " doFL " or " -doFL " (過載顯示)
- Readout (compare) range : 0~19999 adjustable(rate) (顯示值(比較值)範圍) 0~999999999 adjustable (totalizer)
- Alarm action : Hi or Lo adjustable (繼電器動作方向)
- Relay contact output : AC 250V-5A, DC 30V-7A (繼電器容量)
- Analog output resolution : 15 bit DAC (isolating) (類比輸出解析度)
- Response time : < 250ms (0~90%) (反應速度)
- Output drive capability : < 10mA for voltage mode (輸出負載能力) < 10V for current mode < [(V+)-7.5V]/20mA for two-wire mode
- Output ripple (p-p) : < 0.1% F.S. (輸出之漣波)
- RS-485 baud rate : 19200/9600/4800/2400 selective (傳輸速率)
- RS-485 address : "01"~"FF"(0~255) (通訊位址)
- RS-485 protocol : Modbus RTU mode (通訊協議)
- Temp. coefficient : 100ppm/°C (0~50°C) (溫度係數)
- Display : Red high efficiency LEDs high 10.16 mm(0.4") (顯示幕)
- Parameter setting : Touch switches (參數設定方式)
- Memory mode : Non-volatile E² PROM memory (記憶方式)
- Dielectric strength : 2KVac/1 min. (input/output/power) 1600 Vdc (input/output) (絕緣耐壓能力)
- Surge test : ANSI c37.90a/1974, DIN-IEC 255-4 (突波測試) impulse voltage 4KV(1.2x50us)
- Operating condition : 0~50°C (20 to 90% RH non-condensed) (使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed) (存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A (CE認證) EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001 EN 55024:1998/A1:2001

3. OUTSIDE DIMENSION AND CONNECTION DIAGRAM

(外型尺寸與開孔尺寸與配線圖)



微電腦型單相交流集合式電錶(單相二線系統)

(MICROPROCESS AC MULTI-POWER METER)(1Φ2W)

**MODEL
MMX-P1**



■特點(FEATURES)

- 精確度0.25%滿刻度±1位數(Accuracy 0.25% F.S.±1 digit)(ACA/ACV/WATT/VA)
- 可同時量測與顯示交流電壓,電流,頻率,瓦特,(功率因數/視在功率)
(Measuring ACA/ACV/Frequency/WATT(power factor or Apparent power))
- 交流電壓,電流,瓦特皆為真正有效值(TRMS)(ACA/ACV/WATT for True RMS)
- 交流電流,瓦特之小數點可任意設定(ACA/WATT decimal point can be modified)
- 瓦特單位W或KW可任意設定(W or KW scale can be modified)
- CT比可任意設定(1至999)(CT rate can be modified(1 to 999))
- 輸入與輸出絕緣耐壓 2仟伏特/1分鐘(Dielectric strength 2KVac/1 min.(input/output/power))
- 突波測試強度4仟伏特(1.2x50us)(surage test 4KV(1.2x50us))
- 數位RS-485界面(Digit RS-485 interface function)(Optional)

1:MODEL:MMX-P1-□ □ □ □ 選購型號

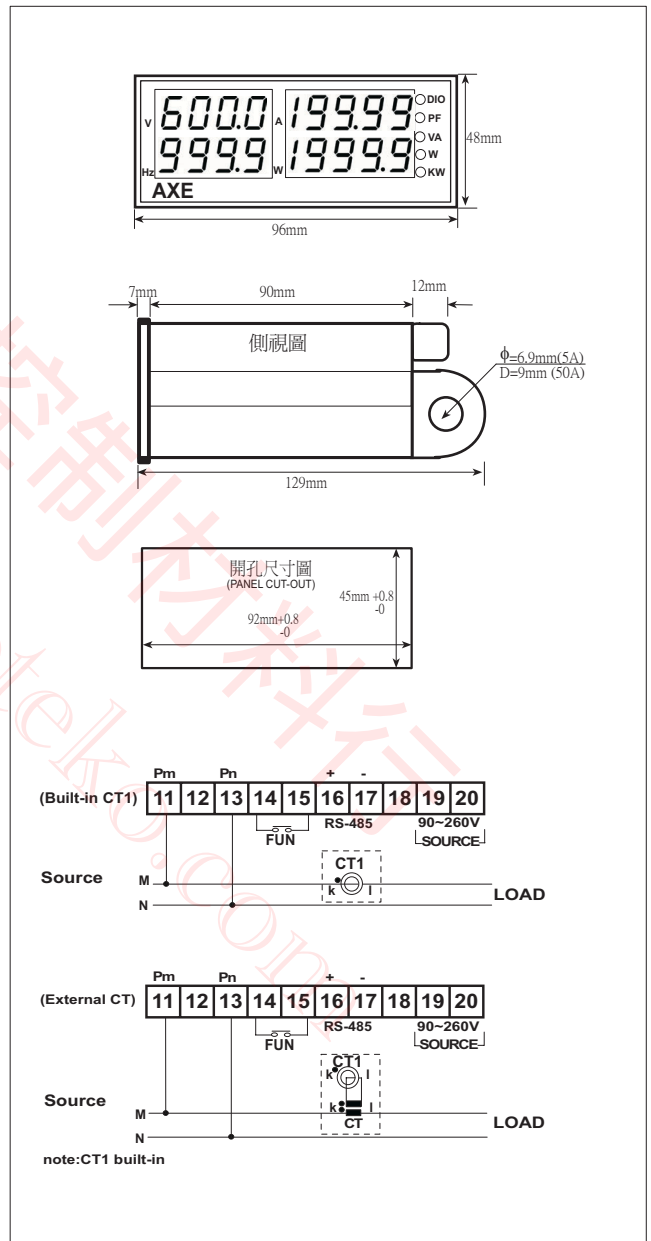
NO	Input Voltage	NO	Input Current	NO	RS-485	NO	Aux.Power
1	AC0~300.0V	2	AC0~5A	N	None	A	AC/DC18~60V
2	AC0~600.0V	3	AC0~50A	Y	RS-485	B	AC/DC90~260V
9	SPECIFIED	9	SPECIFIED				

•Modbus mode •Less 5VA for AC/DC input

2.SPECIFICATION(主要規格)

- Measuring accuracy (精確度) (23±5°C) : 0.1% F.S.±1 digit (Frequency)
0.25% F.S.±1 digit(ACA,ACV,Watt,VA)
0.25% F.S.±0.25%(Power Factor)
- Input burden (輸入負載) : <0.2VA (Voltage)
<0.2VA (Current)
- Maximum input over (最大過載能力) : Current related input: 3 x rated continuous
10 x rated 30 sec. 25 x rated 3sec.
50 x rated 1sec.
Voltage related input: maximum 2 x rated continuous
- Over input indication (過載顯示) : "doFL"
- Readout range (顯示值範圍) : 0~600.0V(Voltage)
0~999.9Hz(Frequency)(<20% for voltage input)
0~19999 digit adjustable(Current,Watt,VA)
-0.300~-1.000~+1.000~+0.300cosθ(PF)
- Sampling time (取樣時間) : 2 cycles/sec.
- RS-485 address (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 100ppm/°C (0~50°C)
- Display (顯示幕) : Red high efficiency LEDs high 10.16 mm(0.4")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E² PROM memory
- Insulation Resistance (絕緣阻抗) : >100Mohm with 500V DC
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
1600 Vdc (input/output)
- Surge test (突波測試) : ANSI c37.90a/1974,DIN-IEC 255-4
impulse voltage 4KV(1.2x50us)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)



三相交流電壓/電流電錶 (3 PHASE AC VOLTAGE/CURRENT METER)

**MODEL
MMP-3VI**



■特點(FEATURES)

- 精確度0.15%滿刻度(Accuracy 0.15% F.S.)
- 可同時量測與顯示三相交流相電壓、線電壓、電流(Measuring ACV-line/ACV-phase/A)
- CT比與PT比可任意設定(1至9999)(CT rate/PT rate can be modified(1 to 9999))
- 手動與自動顯示模式可任意規劃(Manual or auto scanning mode can be modified)
- 突波測試強度4仟伏特(1.2x50us)(surage test 4KV(1.2x50us))
- 3組警報控制功能(Three alarm control function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(Optional)

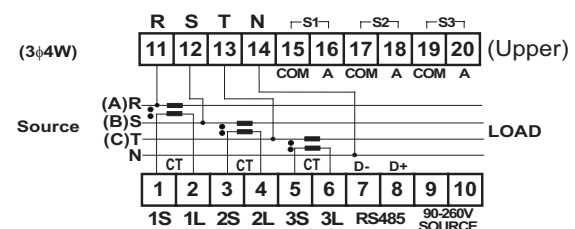
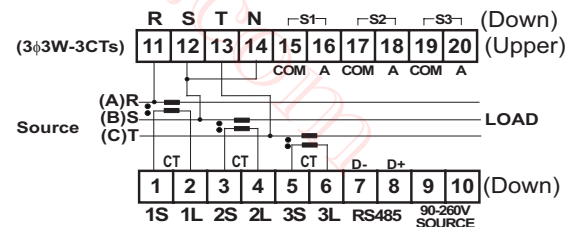
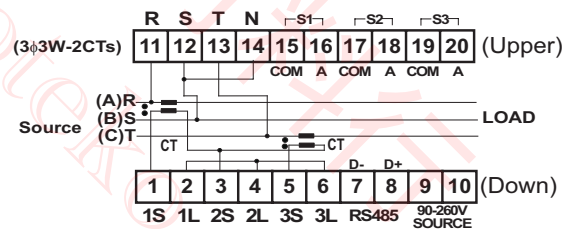
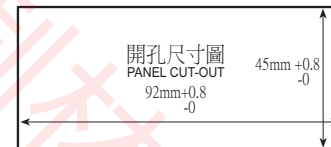
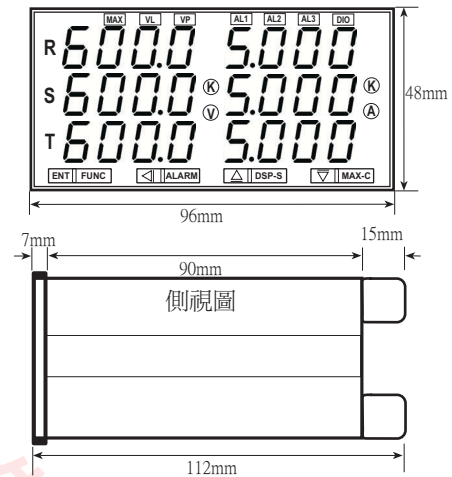
1.MODEL:MMP-3VI-□ □ □ (選購型號)

NO	Alarm Output	NO	RS-485	NO	Aux. Power
N	None	N	None	A	AC/DC18~60V
R	Relay(Three)	Y	RS-485	B	AC/DC90~260V
P	Pulse(Three)		•Modbus mode		•Less 4VA for AC/DC input

2.SPECIFICATION (主要規格)

- Measuring accuracy (精確度) : 0.15% F.S.(23±5°C)
- Input burden (輸入負載) : <0.15VA (Voltage/ Current)
- Maximum input over (最大過載能力) : Voltage related input: maximum AC 750V
Current related input: 3 x rated continuous
10 x rated 30 sec. 25 x rated 3 sec. 50 x rated 1 sec.
- Over input indication (過載顯示) : "doFL"
- Measurement range (輸入範圍) : AC voltage(60~600V)(45~65Hz)
AC current(0.05~5A)(45~65Hz)
- Sampling time (取樣時間) : 10 cycles/second(total)
- Scanning mode (掃描模式) : Auto or manual can be selective (Auto:chang page/10 second)
- CT/PT rate (CT/PT 比值) : 1~9999 adjustable
- Alarm delay time (繼電器延遲動作時間) : 0~999 second adjustable
- Pulse output type (脈波輸出形式) : Standard open-collector (Max.DC60V/120mA)
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- RS-485 adress (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 50ppm/°C (0~60°C)
- Display (顯示幕) : Red high efficiency LEDs high 7.0mm(0.28")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
- Surge test (突波測試) : ANSI c37.90a/1974,DIN-IEC 255-4 impulse voltage 4KV(1.2x50us)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)



NOTE: If not voltage input short pin9 to pin11 and pin10 to pin14,

多功能集合式電力電錶(96x96mm)

(MULTI-FUNCTION POWER METER ,96x96mm)

**MODEL
MMP-2**



■特點(FEATURES)

- 精確度 $\pm 0.25\%$ 滿刻度(Accuracy $\pm 0.25\%$ F.S.)
- 可同時量測與顯示交流相電壓,線電壓,電流,實功率,虛功率,功率因素,頻率,任瓦小時,需量(Measuring and display ACV/ACA/Watt/Var/Power factor/Frequency/KWH/DM(Demand))
- 輸入配線系統可任意選擇(Input measurement network can be selectives(1 ϕ 2W/1 ϕ 3W/3 ϕ 3W/3 ϕ 4W))
- CT比與PT比可任意設定(1至9999)(CT rate/PT rate can be modified(1 to 9999))
- 手動與自動顯示模式可任意規劃(Manual or auto scanning mode can be modified)
- 2組警報控制功能(Two alarm control function)(optional)
- 2組脈波輸出功能(Two pulse output function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(Optional)

1. MODEL: MMP-2-

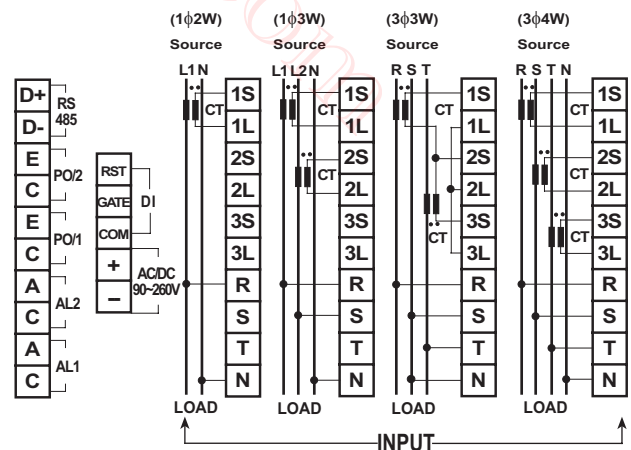
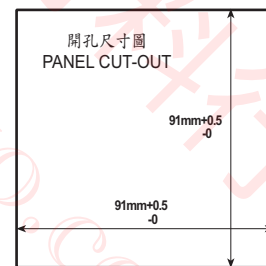
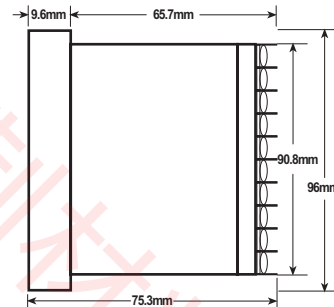
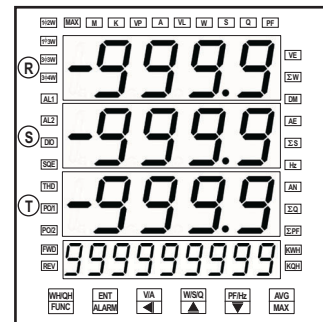
(選購型號)

NO	Alarm Output	NO	Pulse Output	NO	RS-485	NO	Aux. Power
N	None	N	None	N	None	A	AC/DC18~60V
R	Two-Relay	Y	Two-Pulse	Y	RS-485	B	AC/DC90~260V
P	Two-Pulse		•Pulse is open-collector		•Modbus mode		•Less 4VA for AC/DC input

2. SPECIFICATION (主要規格)

- Measuring accuracy : $\pm 0.25\%$ F.S.(V,A,W,Var,P.F./KWH)
(精確度)(23 $\pm 5^{\circ}$ C) $\pm 0.05\%$ F.S.(Frequency)
- Input burden : <0.15VA (Voltage/ Current)
(輸入負載)
- Maximum input over : Current related input: 3 x rated continuous
(最大過載能力) 10 x rated 30 sec. 25 x rated 3 sec. 50 x rated 1 sec.
Voltage related input: 750V
- Over input indication : "doFL"
(過載顯示)
- Sampling time : 1 cycles/second(total)
(取樣時間)
- Measurement range : AC voltage (60~600V)
(輸入範圍) AC current (0.05~5A)
AC frequency(45.00~65.00Hz)
- Scanning mode : Auto or manual can be selective
(掃描模式) (Auto:chang page/10 second)
- Readout/compare range : -9999~+9999 digit (V,A,W,Var,HZ,PF)
(顯示與比較值範圍) 0~999999999+FWD/REV (KWH/KQH)
- CT/PT rate : 1~9999 adjustable
(CT/PT 比值)
- Alarm delay time : 0~999 second adjustable
(繼電器延遲動作時間)
- Pulse output type : Standard open-collector(Max.DC60V/120mA)
(脈波輸出形式)
- Relay contact output : AC 250V-5A, DC 30V-7A
(繼電器容量)
- Pulse output/KWH : 0.001/0.01/0.1/1/10/100/1000 selective
(脈波輸出數量KWH)
- RS-485 adress : "00"~"FF"(0~255)
(通訊位址)
- RS-485 baud rate : 38400/19200/9600/4800/2400 selective
(傳輸速度)
- RS-485 protocol : Modbus RTU mode
(通信協議)
- Temp. coefficient : 50ppm/ $^{\circ}$ C (0~60 $^{\circ}$ C)
(溫度係數)
- Display : Red high efficiency LEDs high 14.22mm(0.56")
(顯示幕) Red high efficiency LEDs high 10.16mm(0.4")(KWH)
- Parameter setting : Touch switches
(參數設定方式)
- Memory mode : Non-volatile E² PROM memory
(記憶型式)
- Dielectric strength : 2KVac/1 min. (input/output/power)
(絕緣耐壓能力)
- Surge test : ANSI c37.90a/1974,DIN-IEC 255-4
(突波測試) impulse voltage 4KV(1.2x50us)
- Operating condition : 0~50 $^{\circ}$ C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70 $^{\circ}$ C (20 to 90% RH non-condensed)
(存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
(CE認證) EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3. OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)



多功能集合式電力電錶 (MULTI-FUNCTION POWER METER)

**MODEL
MMP-3**



■特點(FEATURES)

- 精確度±0.25%滿刻度(Accuracy±0.25% F.S.)
- 可同時量測交流相電壓,線電壓,電流,實功率,虛功率,功率因素,頻率,仟瓦小時 (Measuring ACV/ACA/Watt/Var/Power factor/Frequency/KWH)
- 輸入配線系統可任意選擇(Input measurement network can be selective(1φ2W/1φ3W/3φ3W/3φ4W))
- CT比與PT比可任意設定(1至9999)(CT rate/PT rate can be modified(1 to 9999))
- 手動與自動顯示模式可任意規劃(Manual or auto scanning mode can be modified)
- 3組警報控制功能(Three alarm control function)(optional)
- 數位RS-485界面(Digit RS-485 interface function)(Optional)

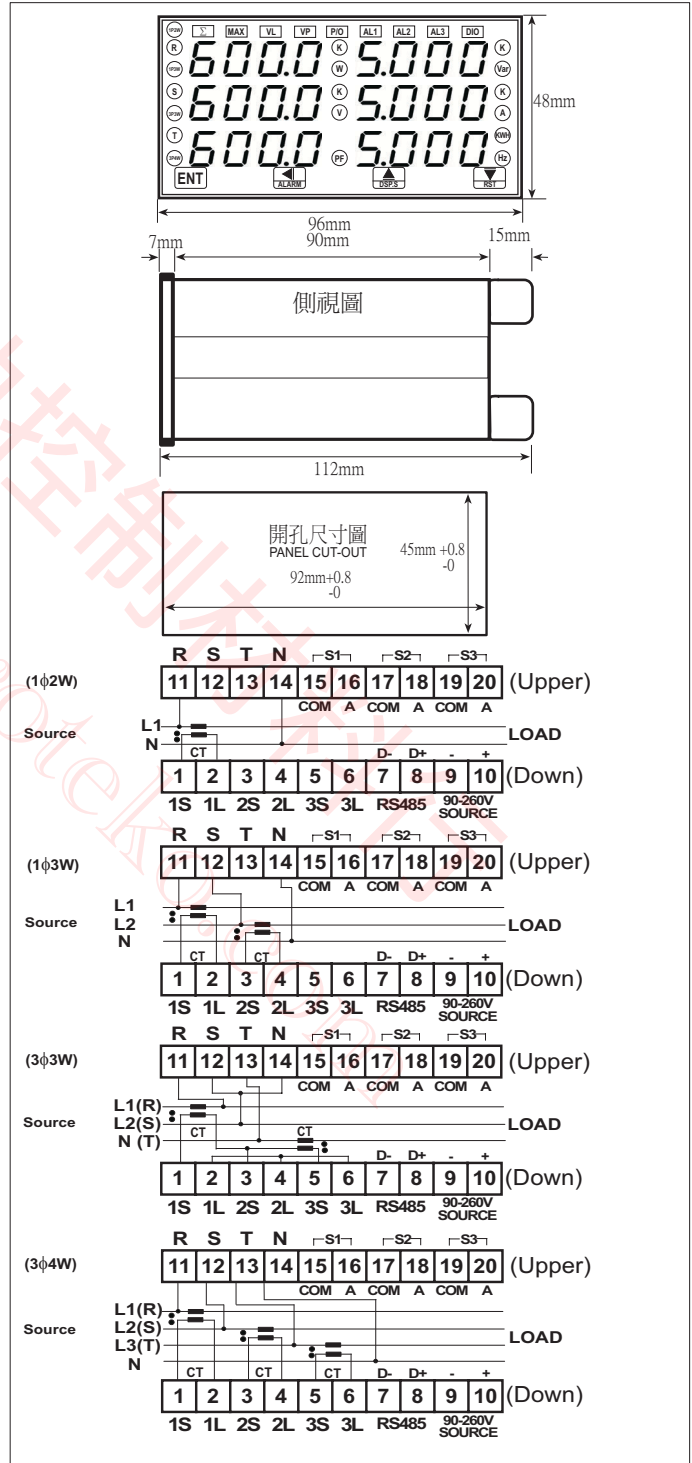
1.MODEL:MMP-3- (選購型號)

NO	Alarm Output	NO	Alarm Output	NO	RS-485	NO	Aux. Power
N	None	S	Relay(Two)+ •Pulse(One)	N	None	A	AC/DC18~60V
R	Relay(Three)			Y	RS-485	B	AC/DC90~260V
P	Pulse(Three)		•When AL3.S=KWH		•Modbus mode		•Less 4VA for AC/DC input

2.SPECIFICATION (主要規格)

- Measuring accuracy (精確度) (23 ± 5°C) : ±0.25% F.S.(V,A,W,Var,P.F./KWH) ±0.05% F.S.(Frequency)
- Input burden (輸入負載) : <0.2VA (Voltage/ Current)
- Maximum input over (最大過載能力) : Current related input: 3 x rated continuous 10 x rated 30 sec. 25 x rated 3 sec. 50 x rated 1 sec. Voltage related input:750V
- Over input indication (過載顯示) : "doFL"
- Sampling time (取樣時間) : 1 cycles/second(total)
- Measurement range (輸入範圍) : AC voltage (60~600V) AC current (0.05~5A) AC frequency(45.00~65.00Hz)
- Scanning mode (掃描模式) : Auto or manual can be selective (Auto:chang page/5 second)
- CT/PT rate (CT/PT 比值) : 1~9999 adjustable
- Alarm delay time (繼電器延遲動作時間) : 0~999 second adjustable
- Pulse output type (脈波輸出形式) : Standard open-collector(Max.DC60V/120mA)
- Relay contact output (繼電器容量) : AC 250V-5A, DC 30V-7A
- Pulse output/KWH (脈波輸出數量KWH) : 0.001/0.01/0.1/1/10/100/1000 selective
- RS-485 adress (通訊位址) : "01"~"FF"(0~255)
- RS-485 baud rate (傳輸速度) : 38400/19200/9600/4800/2400 selective
- RS-485 protocol (通信協議) : Modbus RTU mode
- Temp. coefficient (溫度係數) : 50ppm/°C (0~60°C)
- Display (顯示幕) : Red high efficiency LEDs high 7.0mm(0.28")
- Parameter setting (參數設定方式) : Touch switches
- Memory mode (記憶型式) : Non-volatile E² PROM memory
- Dielectric strength (絕緣耐壓能力) : 2KVac/1 min. (input/output/power)
- Surge test (突波測試) : ANSI c37.90a/1974,DIN-IEC 255-4 impulse voltage 4KV(1.2x50us)
- Operating condition (使用環境條件) : 0~50°C (20 to 90% RH non-condensed)
- Storage condition (存放環境條件) : 0~70°C (20 to 90% RH non-condensed)
- CE EMC Certification (CE認證) : EN 55022:1998/A1:2000 Class A EN 61000-3-2:2000 EN 61000-3-3:1995/A1:2001 EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)



6合1單相交流集合式電力電錶(24x48mm)

(SIX-FUNCTION AC POWER METER, 1Φ2W, 24x48mm)

**MODEL
MMS-P**



■特點(FEATURES)

- 精確度±0.1%滿刻度(Accuracy±0.1% F.S.)
- 可同時量測與顯示交流電壓/電流/仟瓦特/功率因數/頻率/仟瓦特小時 (Measuring and display ACV/ACA/KW/Power factor/Frequency/KWH)
- 交流電壓,電流,瓦特皆為真正有效值(TRMS)(ACA/ACV/WATT for True RMS)
- 突波測試強度4仟伏特(1.2x50us)(surage test 4KV(1.2x50us))
- 尺寸小(24x48x48.5mm),穩定性高(Dimension small (24x48x48.5mm) and High stability)
- 分離式端子,配線容易(Discrete terminal,connector easy)

1:MODEL:MMS-P

選購型號

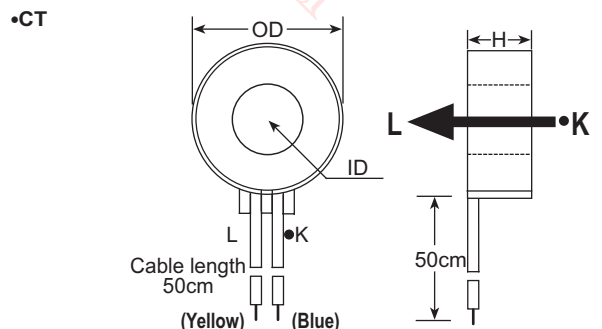
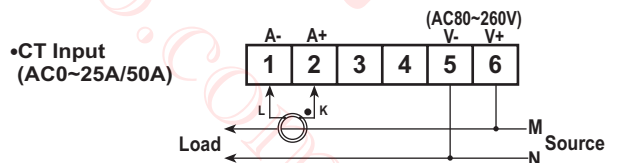
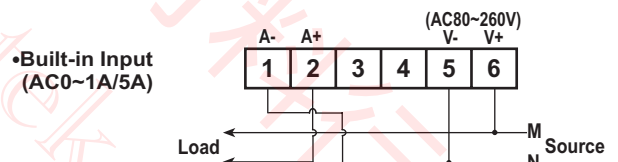
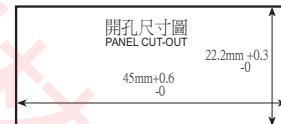
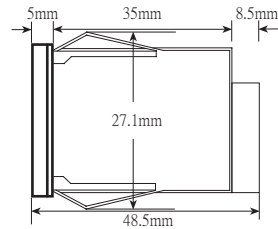
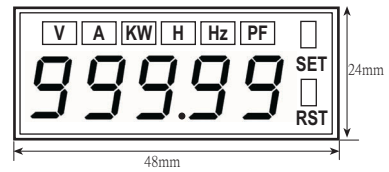
NO	Input Current	NO	Input Current
1	AC0~1.0000A	3	CT(AC0~25.000A/50.00A)
2	AC0~5.000A	9	SPECIFIED

•CT cable length 50cm,OD/ID/H=26/8.0/13.5mm

2.SPECIFICATION(主要規格)

- Aux. power supply : AC80~260V(<0.5VA)
(輔助電源)
- Measuring accuracy : ±0.1% F.S.(Watt/KWH)
(精確度) (23±5°C)
±0.2% F.S.(V/A/P.F.)
±0.05% F.S.(Frequency)
- Input burden : <0.2VA (Voltage/Current)
(輸入負載)
- Maximum input over : Current related input: 3 x rated continuous
(最大過載能力) 10 x rated 30 sec. 25 x rated 3sec. 50 x rated 1sec.
Voltage related input: Maximum AC300V continuous
- Measuring and display range : Voltage(AC80.0~260.0V)
(量測與顯示範圍) Current(0.5~125%)
Watt (0~260.00W)(AC0~1A)
(0~1.3000KW)(AC0~5A)
(0~6.500KW)(AC0~25A)
(0~13.000KW)(AC0~50A)
KWH(0~99.999/999.99/9999.9/99999 KWH auto-range)
Frequency(45.0~65.0Hz)
Power factor(1.000~0.500 P.F.)
- Over input indication : "OVER" & "Unit indication"
(過載顯示)
- Sampling time : 1 cycles/sec.
(取樣時間)
- Scanning mode : Auto or manual can be selective
(掃瞄模式) (Auto:chang page/5 second)
- Temp. coefficient : 50ppm/°C (0~50°C)
(溫度係數)
- Display : Red high efficiency LEDs high 10.16 mm(0.4")
(顯示幕)
- Parameter setting : Touch switches
(參數設定方式)
- Memory mode : Non-volatile E² PROM memory
(記憶型式)
- Dielectric strength : 2KVac/1 min. (input/case)
(絕緣耐壓能力)
- Surge test : ANSI c37.90a/1974,DIN-IEC 255-4
(突波測試) impulse voltage 4KV(1.2x50us)
- Operating condition : 0~50°C (20 to 90% RH non-condensed)
(使用環境條件)
- Storage condition : 0~70°C (20 to 90% RH non-condensed)
(存放環境條件)
- CE EMC Certification : EN 55022:1998/A1:2000 Class A
(CE認證) EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

3.OUTSIDE DIMENSION AND CONNECTION DIAGRAM (外型尺寸與開孔尺寸與配線圖)



•CT:OD/ID/H=26/8.0/13.5mm