

DIGITAL PANEL METER SIX-FUNCTION AC POWER METER(1Ø2W)



FEATURES

- Accuracy $\pm 0.1\%$ F.S.
- Measuring and display ACV/ACA/KW/Power factor /Frequency/KWH
- ACA/ACV/WATT for True RMS
- Surge test 4KV(1.2x50us)
- Dimension small (24x48x48.5mm) and High stability
- Discrete terminal, connector easy

MODEL

MMS-P

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

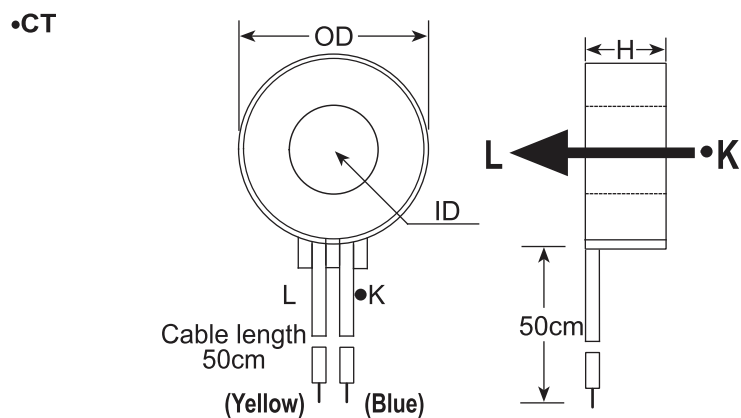
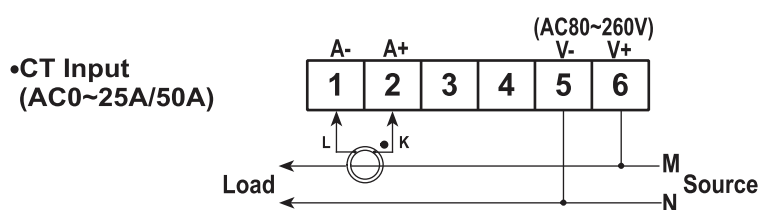
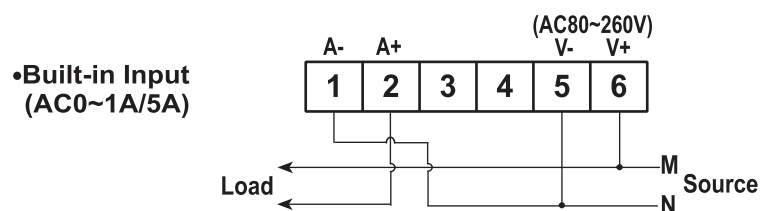
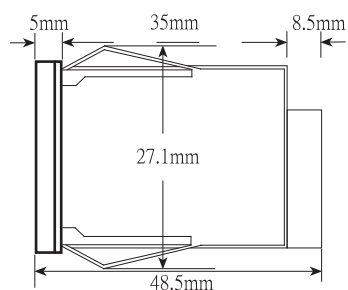
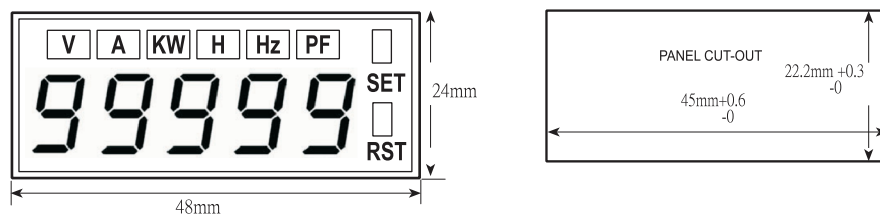
CT cable length 50cm, OD/ID/H=26/8.0/13.5mm

SPECIFICATION

- Aux. Power supply: AC80~260V(<0.5VA)
- Measuring accuracy (23 $\pm$ 5°C): 0.1% F.S.(Watt/KWH) 0.2% F.S.(V/A/P.F.) 0.05% F.S.(Frequency)
- Input burden: <0.2VA (voltage/Current)
- Maximum input over: 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: Maximum AC300V continuous
- Measuring and display range: Voltage (AC80.0~260.0V) Current(0.5~125%)
Watt(0~260.00W)(AC0~1A)
(0~1.3000KW)(AC0~5A)
(6.500KW)(AC0~25A)
(0~13.000KW)(AAC0~50A)
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"
- Sampling Time: 1cycles/sec.
- Scanning mode: Auto or manual can be selective(Auto: Chang page/5 second)
- Temp. Coefficient: 50ppm/°C (0~50°C)
- Display: Red high efficiency LEDs high 10.16m(0.4")
- Parameter setting: Touch switches
- Memory mode: Non-volatile E² PROM memory
- Dielectric strength: 2KVac/1 min. (input/case)
- Surge test: ANSI c37.90a/1974, DIN-IEC 255-4 impulse voltage 4KW(1.2x50us)
- Operating condition: 0~50°C(20 to 90% RH non-condensed)
- Storage condition: 0~70°C(20 to 90% RH non-condensed)
- CE EMC Certification: EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001

DIGITAL PANEL METER OUTSIDE DIMENSION

OUTSIDE DIMENSION AND CONNECTION DIAGRAM



•CT: OD/ID/H=26/8.0/13.5mm

DIGITAL PANEL METER MULTI-FUNCTION POWER METER(1Ø2W)



FEATURES

- Accuracy 0.1% F.S.
- Measuring and display ACV/ACA/W(KW)/Power Factor/Frequency/WH(KWH)
- ACA/ACV/Watt for True RMS
- Surge test 4KV(1.2x50us)
- Four alarm control function (optional)
- Digit RS-485 interface function (optional)
- 16 bit DAC analog output function (optional)

MODEL

MMP-1-□□□□□□□□

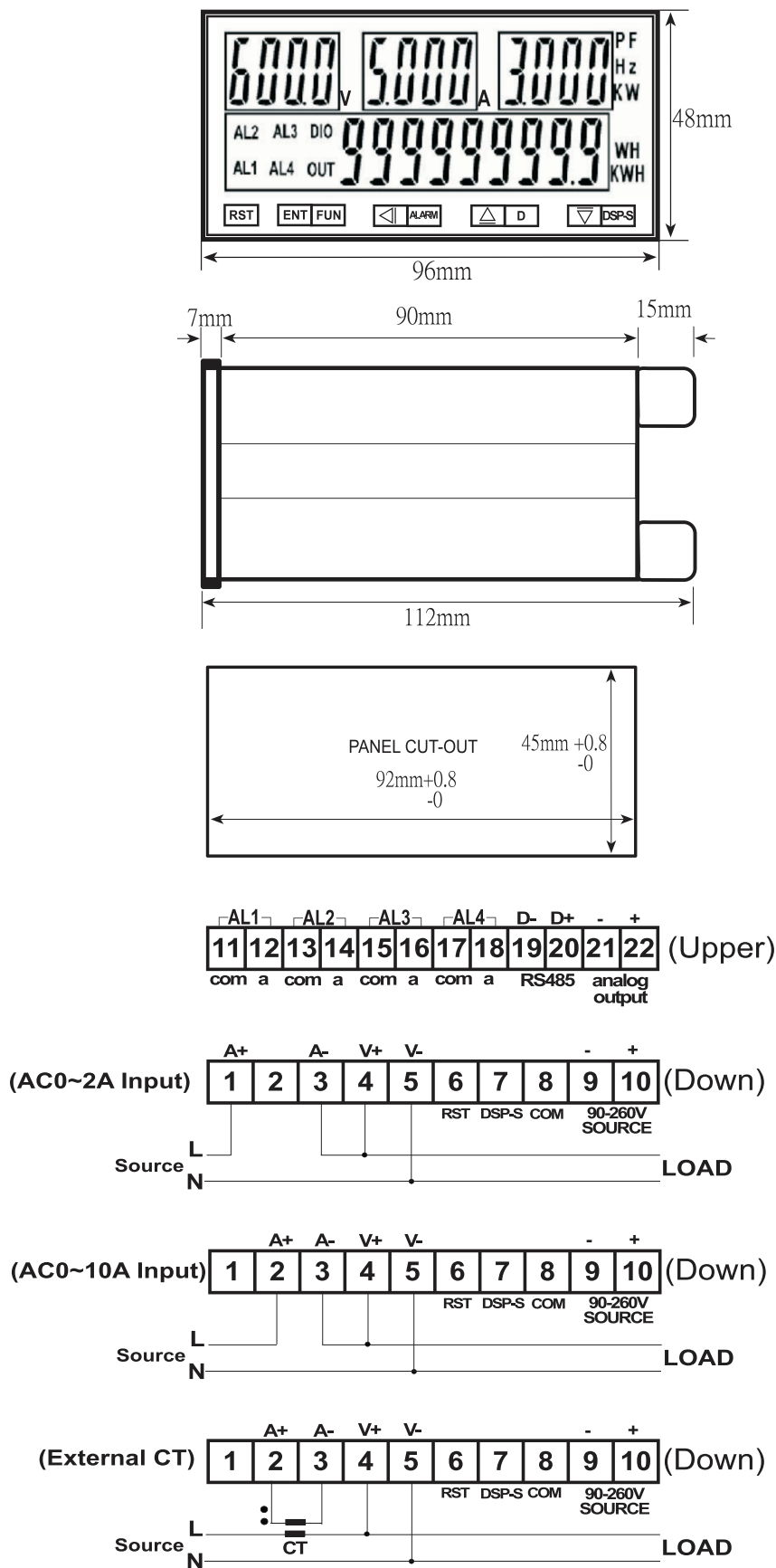
NO	Input Voltage	NO	Input Current	NO	Alarm output	NO	Analog output	NO	RS-485 output	NO	Aux. Power
1	AC0~99.99V	1	AC0~2A/10A	N	None	N	None	N	None	A	AC/DC18~60V
2	AC0~300.0V	2	AC0~5A	Y	Four	I	DC4~20mA	Y	RS-485	B	AC/DC90~260V
3	AC0~600.0V	9	SPECIFIED	• Relay contact (AC 250V-5A, DC30V-7A)	V	DC0~10V	• Modbus mode		• Less 3VA for AC / DC input		
9	SPECIFIED				R	SPECIFIED	• 256 nodes on bus				

SPECIFICATION

- Measuring accuracy (23±5°C): 0.1% F.S.(W(WH)/KW(KWH)/Frequency) 0.2% F.S.(V/A/P.F.)
- Input burden:<0.15VA (Voltage/Current)
- Maximum input over: 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
- Readout range: 0~9999 digit (ACA/ACV/Frequency) -1999~9999 digit (W/KW/P.F.)
0~99999999.9 digit (WH/KWH)
- Sampling time: 1 cycles/second
- Measurement range: AC Voltage (0.2%~100%)/AC Current (0.2%~100%)
Frequency (45~65Hz)(Input 0.2%~100% for AC Voltage)
- Analog output resolution: 16 bit DAC(isolating)
- Output drive capability: <10mA for voltage mode
<10V for current mode
- Relay contact output: AC250V-5A, DC 30V-7A
- Alarm delay time: 0~999 second adjustable
- RS-485 address: "01"~"FF"(0~255)
- RS-485 baud rate: 38400/19200/9600/4800/2400 selective
- RS-485 protocol: Modbus RTU mode
- Temp. Coefficient: 50ppm/°C (0~60°C)
- Display: Bright Red LEDs high 10.16m(0.4")
- Parameter setting: Touch switches
- Memory mode: Non-volatile E² PROM memory
- Dielectric strength: 2KVac/1 min. (Input/input/output/power)
- Surge test: ANSI ac37.90a/1974, DIN-IEC 255-4 impulse voltage 4KW(1.2x50us)
- Operating condition: 0~50°C(20 to 90% RH non-condensed)
- Storage condition: 0~70°C(20 to 90% RH non-condensed)
- CE EMC Certification: EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

DIGITAL PANEL METER OUTSIDE DIMENSION

OUTSIDE DIMENSION AND CONNECTION DIAGRAM



DIGITAL PANEL METER PLUG-IN POWER MONITOR

RoHS



FEATURES

- Accuracy $\pm 0.1\%$ F.S.
- Measuring and display ACV/ACA/Watt/VA/Frequency/Power Factor/KWH/KWH time
- ACV/ACA/Watt for true RMS
- ACA/Watt/VA/KWH/KWH time auto-range function
- Over current ($>15A$) and over temperature ($>65^{\circ}C$) auto-protector function
- Large bright white LEDs high 16.3mm(1.146")
- Impulse test meet requirement of IEC 60950-1 6KV/3kA combination wave test
- Surge test (ring wave) 2.5KV(0.25ms/1MHz))(IEC255-4)

MODEL

AXE-1(None over current/temperature protector function)

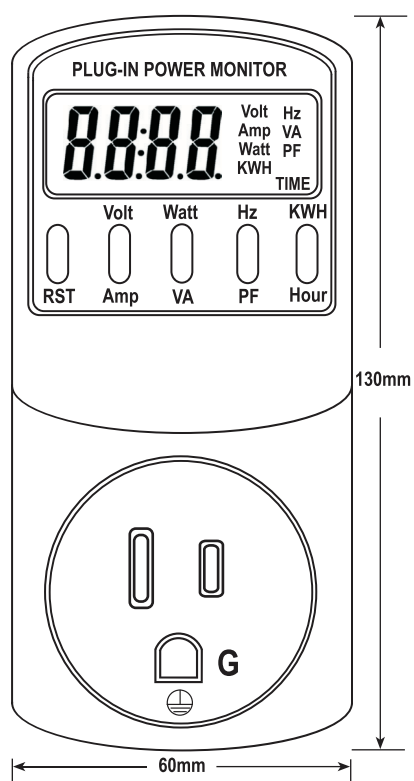
AXE-1-P(One over current/temperature protector function)

SPECIFICATION

- Power consumption: $<0.2VA$ (AXE-1) $<0.6VA$ (AXE-1-P)
- Measuring accuracy ($23\pm 5^{\circ}C$): $\pm 0.1\%$ F.S.(Watt/KWH) $\pm 0.2\%$ F.S.(V/VA/P.F.)
 $\pm 0.05\%$ F.S.(Frequency) $\pm 30ppm$ (KWH time)
- Input burden: $0.05VA$
- Maximum input over: Maximum AC 300V continuous
- Measuring and display range: Voltage (AC 80.0~260.0V)
Current (AC 0~9.999A/0~15.00A auto-range)
Watt/VA (AC 0~999.9W(VA)/0~3900W(VA) auto-range)
KWH (0~99.99KWH/0~999.9KWH/0~9999KWH auto-range)
KWH-time (0~99.59 Hour/0~9999 Hour auto-range)
Frequency (45.0~65.0Hz)
Power factor (1.000~0.500 P.F.)
- Sampling time: 1cycles/sec.
- Over current range: $>AC15A$ (Above 5 second)(Load OFF)
- Over temperature range: $>65^{\circ}C$ (Load OFF)
- Over input indication: "Over" & "Unit indication" & "Buzzer"(Push "RST" keypad above 3 seconds for resrt)
- Scanning mode: Auto or manual can be selective (Auto: Chang page/5 second)
- Temp. coefficient: 50ppm/ $^{\circ}C$ (0~ $50^{\circ}C$)
- Display: Bright white LEDs high 16.3m(1.146")
- Parameter setting: Silicon keypad
- Memory mode: Non-volatile E² PROM memory
- Dielectric strength: 2KVac/1 min. (Input/case)
- Impulse test: IEC 60950-1 AC 6KV/3KA(1.2x50us) combination wave test
- Surge test (ring wave): 2.5KV-0.25ms/1MHz(IEC255-4)
- Operating condition: 0~ $50^{\circ}C$ (20 to 90% RH non-condensed)
- Storage condition: 0~ $70^{\circ}C$ (20 to 90% RH non-condensed)
- CE EMC Certification: EN 55022:1998/A1:2000 Class A
EN 61000-3-2:2000
EN 61000-3-3:1995/A1:2001
EN 55024:1998/A1:2001

DIGITAL PANEL METER OUTSIDE DIMENSION

OUTSIDE DIMENSION (Unit=mm)



INSTALLATION DIAGRAM

