

DIGITAL PANEL METER



FEATURES

- Accuracy 0.1% F.S. $\pm$ 1digit
- Measuring DCA/DCV/Potentiometer...
- Programmable rate -999999 to 999999 digit
- Decimal point can be modified
- Dimension small(24x48x48.5) and High stability
- Discrete terminal connector easy

MODEL

MMS-L ☐ ☐ ☐

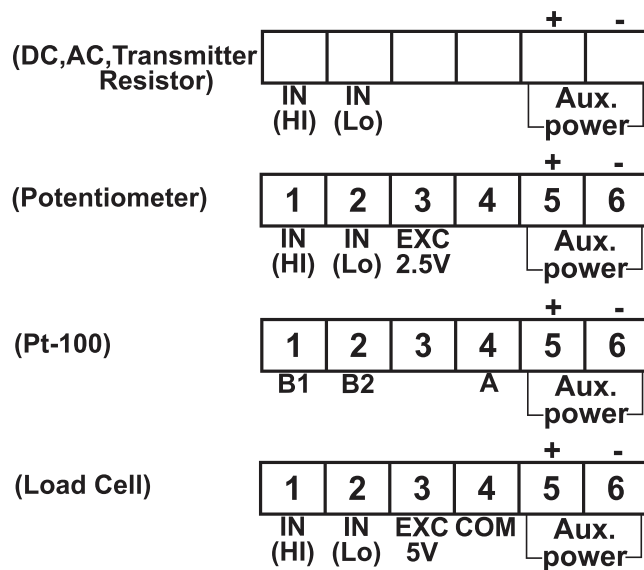
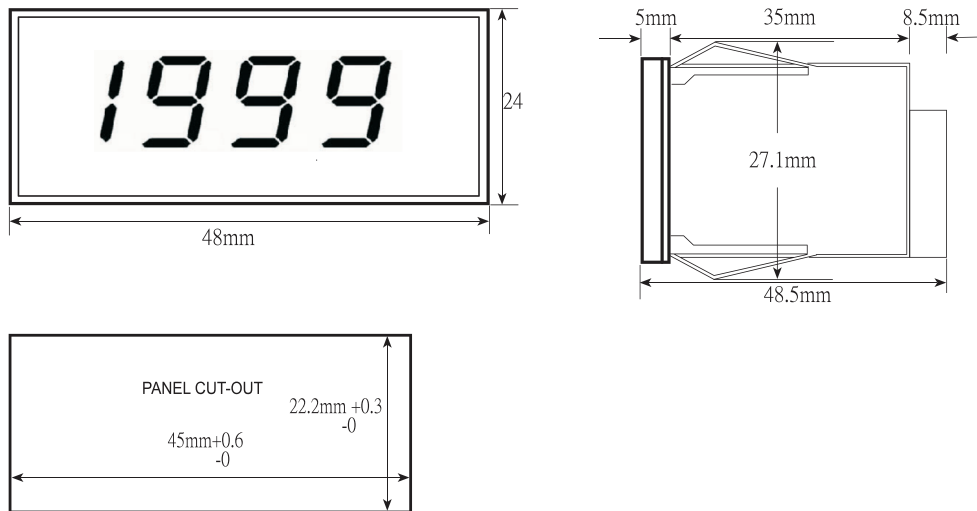
NO	Input Type	NO	DVC(ACV)	NO	DCA(ACA)	NO	Potentiometer	NO	Transmitter	NO	Pt-100	NO	Load Cell	NO	Load Cell
A	DC	11	0~50mV	21	0~19.99uA	31	0~10%	41	DC4~20mA	51	-50.0~-+50.0°C	61	2mV/V	A	DC5V(Non-isolating)
B	AC(RMS)	12	0~5V	22	0~199.9uA	32	0~50%	42	DC~1.5V	52	-100.0~-+100.0°C	62	3mV/V	B	DC5V(Isolating)
D	Potentiometer	13	0~10V	23	0~1.999mA	33	0~100%	49	SPECIFIED	53	-199.9~199.9°C	63	SPECIFIED	C	DC10~30V(Non-isolating)
E	Transmitter	14	0~36V	24	0~19.99mA	34	5~95%			59	SPECIFIED	Exciting DC5V(<25mA)	D	DC 10~30V(Isolating)	
F	Pt-100(RTD)	15	0~54V	25	0~199.9mA	39	SPECIFIED			Three wire connection Non-programmable					
H	Load Cell	16	0~110V	26	0~1.999A	Three wire connection Exciting voltage DC2.5V(<10mA)									
R	Resistor	17	0~600V	27	0~5.00A										
O	SPECIFIED	19	SPECIFIED	29	SPECIFIED										

SPECIFICATION

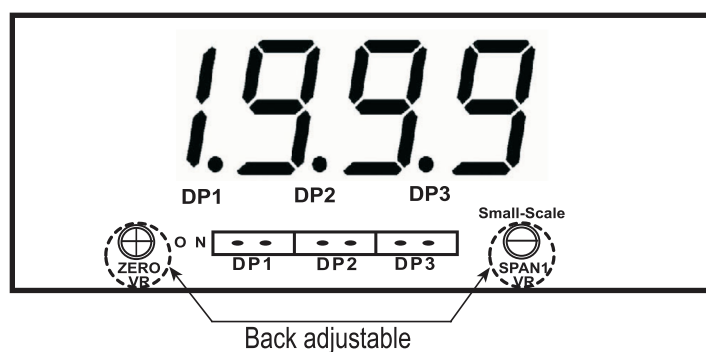
- Measuring accuracy (23 $\pm$ 5°C): 0.1% F.S. $\pm$ 1 digit 0.2% F.S. $\pm$ 1 digit(AC)
- Sampling time: 2.5cycles/sec.
- Readout range: 0~ $\pm$ 150 digit adjustable
- Zero(offset) range: 0~ $\pm$ 100 digit adjustable
- Over input indication: "1" or "-1"
- Display: Red high efficiency LEDs high 10.16mm(0.4")
- Polarity display: When input is negative "-" display
- Temp. Coefficient: 50ppm/°C (0~50°C)
- Dielectric strength: 1KVac/1 min. (input/power)
- Operating condition: 0~50°C (20 to 90% RH non-condensed)
- Storage condition: 0~70°C (20 to 90% RH non-condensed)
- Outside dimension: 24x48x48.5mm
- 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



program of spen and zero and decimal point set



DIGITAL PANEL METER MULTI-FUNCTION DC METER



FEATURES

- Accuracy 0.03% F.S.±1 digit
- Measuring and display DCV / DCA / W / KW / WH / KWH
- Programmable rate 0 to 99999 digit(rate), 0 to 9999999999 digit (totalizer)
- Four alarm function (optional)
- 16 bit DAC analog output function (optional)
- Digit RS-485 interface function (optional)

MODEL

MM2D-DT -

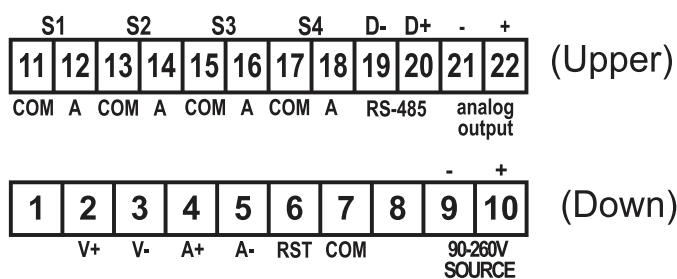
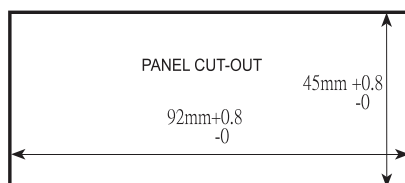
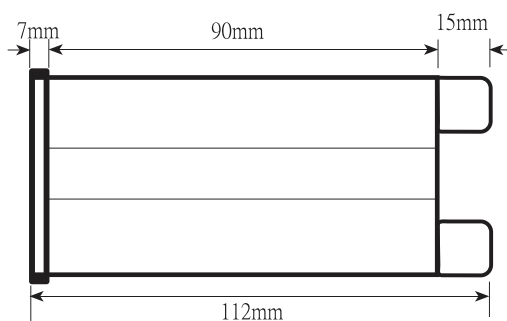
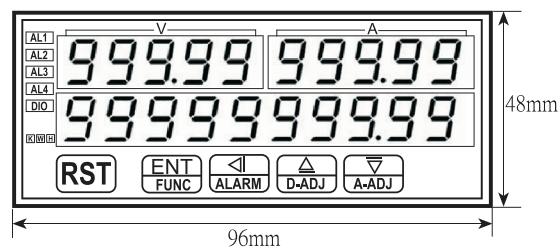
NO	DCV Input	NO	DCA Input	NO	Alam output	NO	Analog output	NO	RS-485 output	NO	RS-485 output
1	0~10V	1	0~50mV (SHUNT)	N	None	0	None	N	None	A	AC/DC18~60V
2	0~20V	2	0~200mA	Y	Yes	1	DC4~20mA	Y	RS-485	B	AC/DC90~260V
3	0~50V	3	0~2A	• Yes=Four alarm • Relay contact (AC 250V-5A, DC30V-7A)			2	DC0~10V	• Modbus mode • 256 nodes on bus		• Less 4VA for AC / DC input
4	0~100V	4	0~5A				3	DC4~20mA			
5	0~300V	5	0~10A				9	SPECIFIED			
9	SPECIFIED	9	SPECIFIED				Two-wire transmitter				

SPECIFICATION

- Measuring accuracy (23±5°C): 0.03% F.S.±1 digit (DCV) 0.05% F.S.±1 digit (DCA/W/KW/WH/KWH)
- Sampling time: 10 cycles/sec.
- Readout range: 0~99999 digit adjustable(rate) 0~9999999999 digit adjustable(totalizer)
- Alarm delay time: 0~99.9 second adjustable
- Alarm action: HI or Lo adjustable
- Relay contact output: AC250V-5A, DC30V-7A
- Analog output resolution: 16 bit DAC
- Response time: <250ms(0~90%)
- Output drive capability: <10mA for voltage mode
<10V for current mode
<[(V+)-7.5V]/20mA for two-wire mode (Exciing DC10~36V)
- Output ripple (p-p): <0.1% F.S.
- RS-485 address: "01"~"FF"(0~255)
- RS-485 baud rate: 19200/9600/4800/2400 selective
- RS-485 protocol: Modbus RTU mode
- Temp. coefficient: 30ppm/°C (0~50°C)
- Display: Red high efficiency LEDs high 10.18mm(0.4")
- Parameter setting: Touch keys
- Memory mode: Non-volatile E² PROM memory
- Dielectric strength: 2KVac/1 min. (input1/input2/output/power) 1600 Vdc (input/output)
- 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 SMART 485/LOW POWER



FEATURES

- Accuracy 0.05% F.S.±1digit
- Measuring and display DCV/DCA/W(KW)/WH(KWH)
- Auto range (DC0~99.99V/0~600.0V) for voltage input function
- Programmable rate 0 to 9999 digit (DCA/W(KW)),0 to 99999999 digit (WH(KWH))
- Digit RS-485 interface function(optional)
- Dimension small and high stability

MODEL

MMX-D ☐ ☐ ☐

NO	Input DCA	NO	RS-485	NO	Aux. Power
1	0~50mV(SHUNT)	N	None	A	DC8~60V
2	0~2.000A	Y	RS-485(Non-Isolating)	B	AC90~240V(50/60Hz)
3	0~10.00A	I	RS-485(Isolating)	Less 0.5VA for DC8~60V Less 1.5VA for AC90~240V	
9	SPECIFIED	Y (32 nodes on bus) I (256 nodes on bus)			



SPECIFICATION

- Aux. Power consumption:<0.35VA (DC12V/DC24V) <0.5VA (DC48V)
<1.5AV(AC90~240V(50/60Hz))
- Measuring accuracy (23±5°C): 0.05% F.S.±1digit
- Measurement range:Auto range (DC0~99.99V/0~600.0V(DC voltage))
- Input impedance:>5M ohm(DC voltage)
- Sampling time:10 cycles/second(total)
- Readout range:0~9999 digit (DCA/W(KW)),0~99999.999 digit (WH/(KWH))
- Over input indication:"doFL"
- RS-485 address:"01"~"FF"(0~255)
- RS-485 baud ratc:19200/9600/4800/2400 selective
- RS-485 protocol:Modbus RTU mode
- Temp. coefficient:50ppm/°C (0~50°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/output) (RS-485(Isolating))
1600Vdc (input/output)(RS-485(Isolating))
- 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

