Ampere Meter

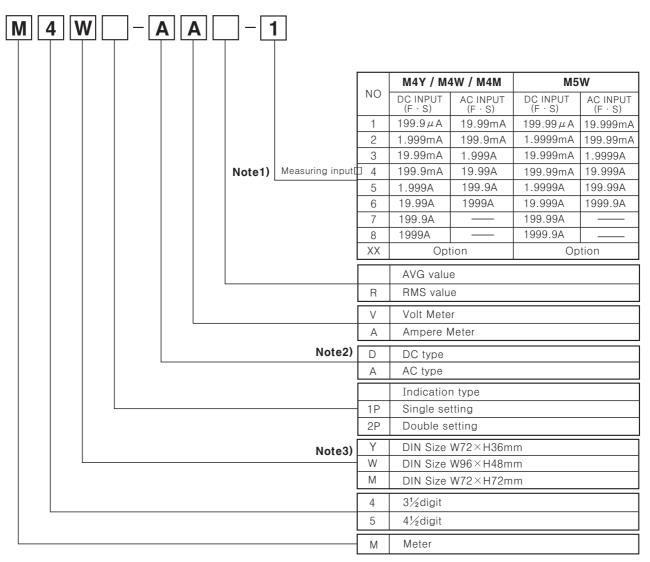
■ Features

- •Max. display: 19999 (M5W), 1999 (Others)
- •AUTO ZERO function or HOLD function(Except M5W)
- •RMS/AVG value selection function(AC Voltage)
- •7Segment LED Display
- •Case size by DIN specification
- •Indication type only, Single preset output type, Double preset output type

Please read "Caution for your safety" in operation manual before using.



Ordering information



Note1)Measuring input and display is 1:1 for DC INPUT No.1 to 5 and AC INPUT No.1 to 3, DC INPUT No.6 to 8 is used with DC50mV Shunt, AC INPUT No.4 to 6 are used with C.T (Current tranducer)

Note2) RMS only applies to AC measuring type. Do not enter "R" with DC model.

Note3)M4Y, M5W are an indication type.

(A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Proximity

(J) Photo electric sensor

(K) Pressure sensor

(L) Rotary encoder

(M) 5-Phase stepping motor & Driver & Controller

Autonics E-32

M4Y/M4W/M5W/M4M Series

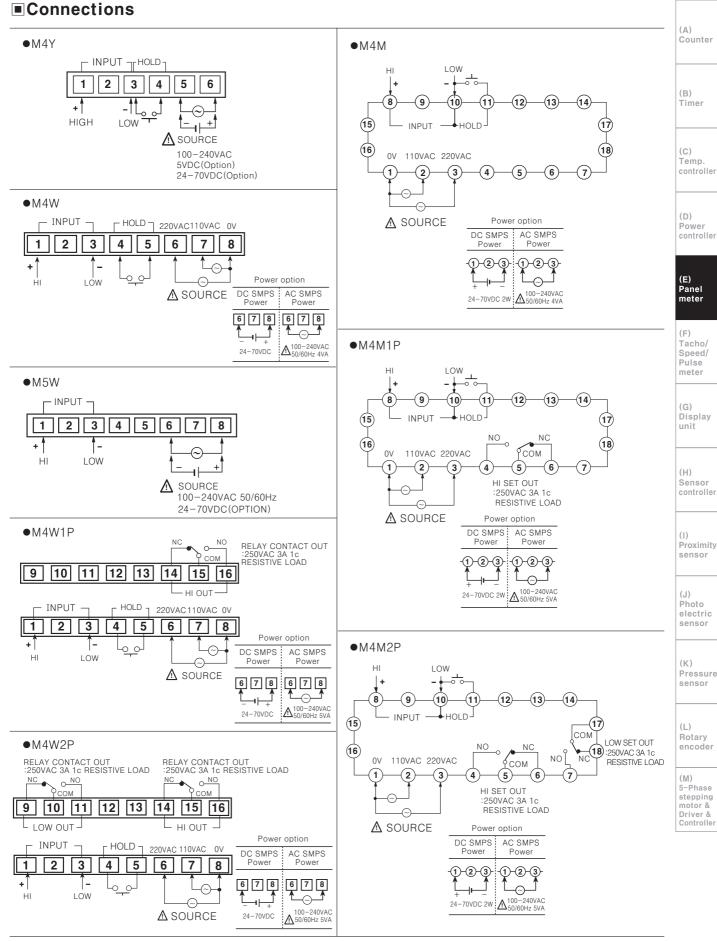
■Specifications

Model		M4Y-DV- M4Y-AA	M4W-DA- M4W-AA M4M-DA- M4M-AA	M4W1P-DA- M4W1P-AA	M4W2P-DA-
Measurement function		DC, AC voltage			
Max. allowable input		150% for each input specification			
Power supply		★5VDC (Except M5W) ★24-70VDC 100-240VAC 50/60Hz	★24-70VDC ★100-240VAC 50/60Hz 110/220VAC 50/60Hz		
Allowable voltage range		90 ~ 110% of rated voltage			
Power consumption		DC: 2W, AC: 4VA DC: 2W, AC: 5VA			
Display method		7Segment LED Display			
Character height		14.1mm		M4W:10.16mm, M4M:10mm	
Display accuracy		DC : F · S $\pm 0.2\%$ rdg ± 1 digit AC : F · S $\pm 0.5\%$ rdg ± 1 digit			
Sampling cycle		300ms			
A/D conversion method		Dual slope integral method			
Response time		2sec.(0 ~ Max.)			
Setting time		2.5 times/sec			
Contact capacity				Relay output : 250VAC 3A 1c	Relay output : 250VAC 3A 1c×2
Insulation resistance		Min. 100MΩ (at 500VDC)			
Dielectric strength		2000VAC 50/60Hz for 1 minute			
Noise strength		±1kV the square wave noise(pulse width:1μs) by the noise simulator			
Vibration	Mechanical	0.75mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 1 hour			
	Malfunction	0.5mm amplitude at frequency of 10 ~ 55Hz in each of X, Y, Z directions for 10 minutes			
Shock	Mechanical	300m/s² (30G) in X, Y, Z directions for 3 times			
	Malfunction	100m/s² (10G) in X, Y, Z directions for 3 times			
Relay life cycle	Mechanical			Min. 1,000,000	
	Malfunction			Min. 1,000,000 (250VAC 3A resistive load)	
Ambient temperature		-10 ~ +50°C (at non-freezing status)			
Storage temperature		-25 ~ +65℃ (at non-freezing status)			
Ambient humidity		35~85%RH			
Weight		M4Y:Approx. 170g M5W:Approx. 317g	M4W:Approx. 317g M4M:Approx. 401g	M4W-1P:Approx. 408g M4M-1P:Approx. 467g	

^{*} "★" (Power supply) is optional.

E-33 Autonics

Ampere Meter

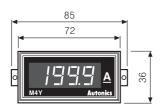


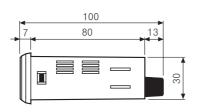
Autonics E - 34

M4Y/M4W/M5W/M4M Series

Dimensions







●Panel cut—out Min. 91 Min. 40 68-0.7

●M4W

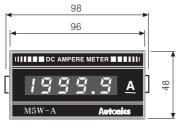


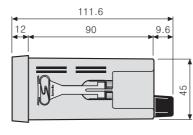


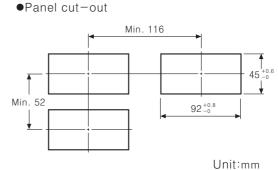




Unit:mm







●M4M

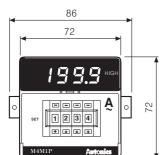


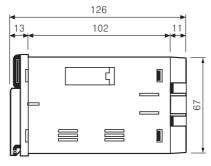




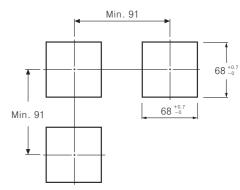
●M4M2P







●Panel cut−out



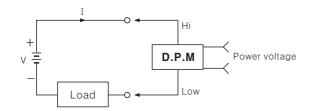
Unit:mm

E-35 Autonics

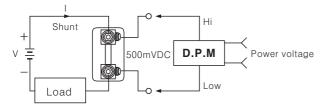
Ampere Meter

Connections

Measuring DC voltage



(Fig. 1) Measuring lower than 2ADC of current

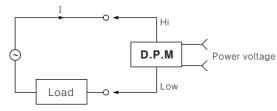


(Fig. 2) Measuring higher than 2ADC of current

**Higher than 2ADC is using shunt for measuring current.
**Basically the 2nd part of shunt value is 50mVDC.

Ex)Ordering D.P.M in case of 10ADC of measuring ampere: Select 10ADC/50mVDC of shunt and 50VDC/1000ADC of D.P.M.

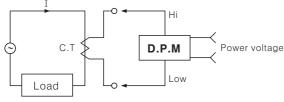
Measuring AC voltage



(Fig. 3) Measuring lower than 5AAC of current

Ex)Ordering D.P.M in case of lower than 5AAC of measuring ampere:

Select M4W-AA-XX AC5A/5.00A



(Fig. 4) Measuring lower than 5AAC of current

* If the current is higher than 5AAC, please use C.T.

Ex)How to order D.P.M in case of 300AAC of measuring ampere: Select 300AAC/5A of C.T and 5AAC/300A of D.P.M.

Proper usage

 Before you buy or use the Panel Meter, please read this catalog. The product, which is produced by customer's requirement, cannot be exchanged or refunded.

•If it displays arbitrary number even though the power is ON, please remove the input signal and check whether it displays "0000" after short the measurement terminal.

(Checking Auto Zero function)

If it does not display "0000", please connect to our A/S center.

Note)M5W Series does not have Auto Zero function.

•If it indicates 1999 or -1999 during input signal is ON, please turn OFF the power and check the connection condition.

It is because the input signal is too low or high. Note) M5W Series indicates "19999" or "-19999".

 The specification of measurement input, which is indicated in model ordering, is a standard specifi
 cation, 1:1 of measurement input and processing value.

*Our company does not sell a shunt or C.T, so please buy it individually.

 The D.P.M for measuring AC voltage has both AVG type and RMS type separately.

Because it is produced with AVG type, please mark the model name accurately.

Ex)In case of M4Y, M4W, M4M Series(Include setting type)

The model of RMS type: M4W-AAR-6 The model of AVG type: M4W-AA-6

*The specification will be set by sign "R".

*M5W Series has RMS type only, and it is not indicated "R" on the model name.

•In case of D.P.M for measuring AC voltage, please check if it is AVG type or RMS type when comparison measuring with other company's products. (A) Counter

(B) Timer

(C) Temp. controller

(D) Power controller

(E) Panel meter

(F) Tacho/ Speed/ Pulse meter

(G) Display unit

(H) Sensor controller

(I) Proximity sensor

(J) Photo electric sensor

(K) Pressure sensor

(L) Rotary encoder

(M) 5-Phase stepping motor & Driver & Controller

Autonics E-36