Panel Meters (Indicator)

M4Y Series

CATALOG

For your safety, read and follow the considerations written in the instruction manual, other manuals and Autonics website.
The specifications, dimensions, etc. are subject to change without notice for product improvement. Some models may be discontinued without notice.

Features

- Max. display value: 1999
- Auto-zero function and hold display value function
- Linear display based on input specification
- Display output values (0 - 10 VDC⎓) from power converters (options available for DC 4 - 20 mA, 1 - 5 VDC⎓)
- RMS or AVG value selection (AC voltage)
- 7-segment LED display
- DIN standard size models

Ordering Information

This is only for reference, the actual product does not support all combinations.
For selecting the specified model, follow the Autonics webstie.

M	4	Y	-	❶	❷	-	❸

❶ Input type
DV: DC voltage
AV: AC voltage
DA: DC current
AA: AC current
W: Power
T: Rotation
S: Speed
DI: Scaling (DC 4 - 20 mA)

❷ AC measurement method
No mark: AVG
R: RMS

❸ Measurement input
Refer to measurement input specifications.

Measurement Input Specifications

Measurement input	Input type							
	DV	AV	DA	AA	W 01)	T 02)	S 02)	DI
No mark	-	-	-	-	-	-	-	1999
1	199.9 mVDC⎓	199.9 mVAC~	199.9 μA	19.99 mA	199.9 W	1999 rpm 0 - 10 VDC⎓	1999 m / min 0 - 10 VDC⎓	-
2	1.999 VDC⎓	1.999 VAC~	1.999 mA	19.99 mA	1.999 kW	1999 rpm 0 - 10 VAC~	1999 m / min 0 - 10 VAC~	-
3	19.99 VDC⎓	19.99 VAC~	19.99 mA	1.999 A	19.99 kW	-	-	-
4	199.9 VDC⎓	199.9 VAC~	199.9 mA	19.99 A	199.9 kW	-	-	-
5	300 VDC⎓	-	1.999 A	199.9 A	-	-	-	-
6	-	400 VAC~	19.99 A	1999 A	-	-	-	-
7	-	-	199.9 A	-	-	-	-	-
8	-	-	1999 A	-	-	-	-	-
DX	-	-	-	-	-	DC input option		-
AX	-	-	-	-	-	AC input option		-
XX	Option	Option	Option	Option	Option	-	-	Option

01) This specification is based on the transducer with 0 - 10 VDC⎓ output.
When the output of transducer is DC 4 - 20 mA or 1 - 5 VDC⎓, use the scaling meter.
02) This specification is based on the tacho generator with 0 - 10 VDC⎓ or 0 - 10 VAC~ output.

Product Components

- Product
- Bracket × 2
- Instruction manual

Specifications

Input type	DC voltage	AC voltage	DC current	AC current	Power	Rotation, speed	Scaling
Max. allowable input	≤ 300 VDC⎓	≤ 400 VAC~	≤ DC 2 A	≤ AC 5 A	≤ 10 VDC⎓	≤ 10 VDC⎓ ≤ 10 VAC~	DC 4 - 20 mA
	≈ 150 % F.S. for each measured input range [01]						
Display method	7-segment (red) LED (character height: 14 mm)						
Display accuracy	Dependent on the input type						
DC input	± 0.2 % F.S. rdg ± 1-digit						
AC input	± 0.5 % F.S. rdg ± 1-digit						
Display scale	1999						
Sampling time	2.5 times / sec						
Response speed	≈ 2 sec (0 to 1999)						
Sampling cycle	300 ms						
Operation method	Dual integral method						
Unit weight	≈ 144 g						
Approval	EAC						

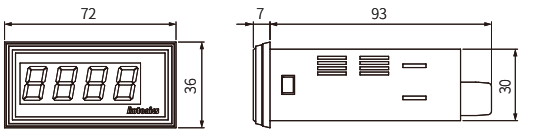
01) At 400 VAC~ input: ≈ 120 % F.S. for each measured input range

Power supply [01]	100 - 240 VAC~ ± 10 % 50 / 60 Hz
Power consumption	Dependent on the input type
DC input	2 W
AC input	4 VA
Insulation resistance	≥ 100 MΩ (500 VDC⎓ megger)
Dielectric strength	2,000 VAC~ 50 / 60 Hz for 1 min
Noise immunity	± 1 kV square wave noise (pulse width: 1 μs) by the noise simulator
Vibration	0.75 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 1 hours
Vibration (malfunction)	0.5 mm double amplitude at frequency of 10 to 55 Hz (for 1 minute) in each X, Y, Z direction for 10 min
Shock	300 m/s^2 (≈ 30 G) in each X, Y, Z direction for 3 times
Shock (malfunction)	100 m/s^2 (≈ 10 G) in each X, Y, Z direction for 3 times
Ambient temperature	-10 to 50 °C, storage: -25 to 65 °C (no freezing or condensation)
Ambient humidity	35 to 85 %RH, storage: 35 to 85 %RH (no freezing or condensation)

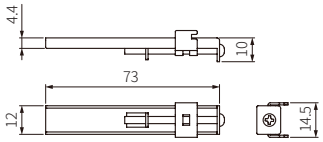
01) Power supply 24 - 70 VDC⎓ option is also available to order.

Dimensions

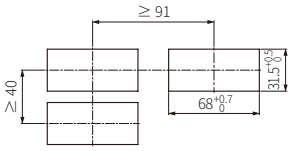
• Unit: mm, For the detailed drawings, follow the Autonics website.



■ **Bracket**



■ **Panel cut-out**



18, Bansong-ro 513Beon-gil, Haeundae-gu, Busan, Republic of Korea, 48002
www.autonics.com | +82-51-519-3232 | sales@autonics.com

Autonics