

**⚠ Warning** Failure to follow these instructions may result in serious injury or death.

**⚠ Caution** Failure to follow these instructions may result in personal injury or product damage.

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- Technical drawings of the Autonic DC Amperie Meter:
- Front View:** Dimensions 96 (width) and 48 (height). The display shows '1999.9' and the brand 'Autonic'.
  - Side View:** Dimensions 12 (depth) and 100 (width).
  - Bracket:** Dimensions 4.5, 3.5, 54, and 20.
  - Panel Cut-out:** Dimensions Min. 52, Min. 116, 92, and 45.

Diagram illustrating the model code structure for the MS2000 series. The model code is composed of the following segments:

- M**: Item
- 5**: Digit
- W**: Size
- : Measurement function (input)
- AV**: AC measuring method
- [ ]**: Measurement input / display scale
- : No-mark
- [ ]**: DV, DA, AV, AA, W, T, S, DI
- : W, 5, M
- 4**: W, 5, M

Segment	Options
<b>Number</b>	Refer to "● Measurement input range"
<b>No-mark</b>	Root mean square value (RMS)
<b>DV</b>	DC voltage
<b>DA</b>	DC current
<b>AV</b>	AC voltage
<b>AA</b>	AC current
<b>W</b>	Power
<b>T</b>	Rotation (tachometer)
<b>S</b>	Speed (speed meter)
<b>DI</b>	DC4-20mA (scaling meter) <sup>※1</sup>
<b>W</b>	DIN W96×H48mm
<b>5</b>	19999 (4½-digit)
<b>M</b>	Meter

[illegible]

Model	M5W-DV-□ M5W-AV-□	M5W-DA-□ M5W-AA-□	M5W-W-□	M5W-T-□ M5W-S-□	M5W-DI-□
Measurement function	DC, AC voltage	DC, AC current	Power	Rotation, speed	Scaling
Max. allowable input	Max. 400VAC~ Max. 300VDC=	Max. AC 5A Max. DC 2A	Max. 10VDC=	Max. 10VDC=, max. 10VAC~	DC4-20mA
	150% for each input specification (at 400VAC~: 120%)				
Max.display range	19999				
Power supply	100-240VAC~ 50/60Hz (option: 24-70VDC=)				
Allowable voltage range	90 to 110% of rated voltage				
Power consumption	DC input: 2W, AC input: 4VA				
Display method	7-segment LED display (red) (character height: 14mm)				
Display accuracy	DC input: F.S.±0.2%rdg ±1-digit, AC input: F.S.±0.5%rdg ±1-digit				
Sampling cycle	300ms				
A/D conversion method	Dual slope intergal method				
Response time	2 sec (0 to 1999)				
Sampling time	2.5 times/sec				
Insulation resistance	Over 100MΩ (at 500VDC megger)				
Dielectric strength	2000VAC 50/60Hz for 1 minute				
Noise immunity	±1kV the square wave noise (pulse width:1μs) by the noise simulator				
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 1hour			
	Malfunction	0.5mm amplitude at frequency of 10 to 55Hz in each X, Y, Z direction for 10 min			
Shock	Mechanical	300m/s <sup>2</sup> (approx. 30G) in each X, Y, Z direction for 3times			
	Malfunction	100m/s <sup>2</sup> (approx. 10G) in each X, Y, Z direction for 3times			
Environ-ment	Ambient temp.	-10 to 50°C, storage: -25 to 65°C			
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH			
Unit weight	Approx. 172g				

The diagram shows the physical connector and its pinout. The top part shows a side view of the 'Forked' connector with dimensions 'a' and 'b'. Dimension 'a' is the width of the forked part, and 'b' is the total width. A table specifies the minimum and maximum values for these dimensions.

	a	b
Min.	3.5mm	
Max.		7.0mm

The bottom part shows the 8-pin connector pinout. The pins are numbered 1 through 8. Pins 1, 2, and 3 are labeled 'INPUT'. Pins 4 and 5 are unlabeled. Pins 6 and 7 are connected to a common ground symbol. Pin 8 is connected to a common ground symbol. The common ground is labeled 'SOURCE 100-240VAC 50/60Hz' and 'Option: 24-70VDC'.

## DRW170803AB