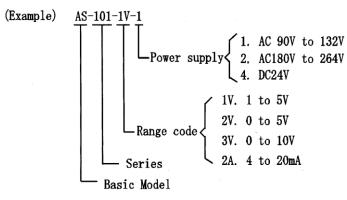


AS-101-2A 4 to 20mA $\begin{array}{c} 0 \text{ offset } \pm 10 \\ \text{Fullscale} \\ 100 \text{ to } 1999 \end{array}$ $51\Omega \pm 70\text{mA}$	Model & Range Code	Measuring Range	Display	Input Resistance	Maximum. Allowable Current
			Fullscale 100 to 1999		

Accuracy: \pm (0.2% of rdg +2digit) (at 23 $^{\circ}$ C \pm 5 $^{\circ}$ C 35 to 85% RH)

Model Configuration



3-1 General cautions and preparation prior to operation

3. Operation

- 1)This instrument should be used at an ambient temperature of 0 to 50°C and a humidity of 80% or less, paying special attention to dew condensation.
- 2) It must be used at a location free of dust.
- 3)Care should be taken to prevent vibration and shock.

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4)Noise

(a)Electric circuit

Because it is difficult for such a small instrument as this to accommodate a perfect noise prevention circuit, use a surge absorbing circuit such as an external line filter or varistor to prevent excess surge when the instrument is used at a location where lightening frequently occurs or

magnetic switches are likely to be actuated on the same power line.

(b)Shielding

If noise causes a problem, connect the E terminal(11) for AC, or the power OV terminal(17) for DC to the ground or equipment grounding terminal.

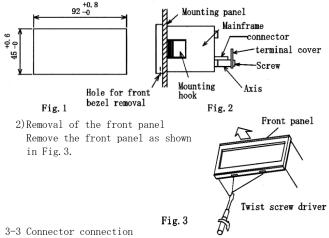
If space induction causes a problem, it can be prevented by covering the instrument case with a metal plate.

3-2 Mounting

1)Panel mounting

Make a rectangular cutout as shown in Fig. 1, insert the instrument in the panel as shown in Fig. 2, and then fully push the instrument into the panel.

(It is recommended that panel thickness be from 0.8 to 5mm)



1)Power connection

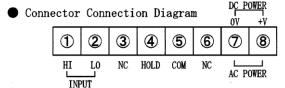
For AC, connect power to terminals 7 to 8, operate the instrument at a power supply voltage of 90 to 132V or 180 to 264V.

For DC, connect power to terminals 7 to 8.

Power variation in this case is 24V DC $\pm\,20\%$

(Because this instrument is not provided with a power supply switch, it starts operating when power is supplied.) 2) Input connection

Connect an input signal (DC voltage or DC current to terminals 1 to 3. Use a 2-core shielded cable and connect the shield to the input LO side at one point near the signal source.



Caution

NC indicates a vacant terminal. However, do not use it as a junction terminal.

Input LO and COM have the same potential.

3)Hold and external start

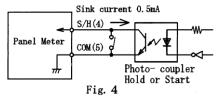
By shorting the S/H terminal (No. 4) with the COM (No. 5) terminal or setting them to level "0", the displayed value just after they are shorted or set to level "0" is held. In addition, measurement starts by opening them or setting to

level" 0" at the necessary timing.

watanabe WATANABE ELECTRIC INDUSTRY CO., LTD. A minimum of 400ms is required for one measurement.

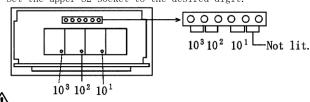
In addition, as the input (LO) and COMMON(7) terminals are connected and not DC-isolated, use a mechanical contact signal such as a relay or switch for control as much as possible. When performing control by TTL. or transistor, and such an external circuit in Fig. 4. (This circuit is absolutely necessary for isolation when the input floated.)

"1" level:2.5V to 5V "0" level:0V to 1.5V Input current -0.5mA



3-4 Desimal point setting

Remove the case front panel from the meter. Set the upper S2 socket to the desired digit.



 ${
m I\!M}$ Do not touch any parts other than those specified.

Do not make the setting during power-on.

4.Scaling

Remove the case front panel from the meter.

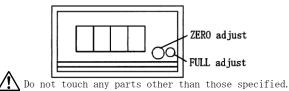
(1)Zero Adjustment

Input:1V range=1V, 2V range=0V, 3V range=0V, 2A range=4mA Turn the ZERO adjuster on the front panel until the display shows 000.

(2)Full adjustment

Input:1V range=5V, 2V range=5V, 3V range=10V,2A range=20mA Turn the FULL adjuster on the front panel until the display shows the desired value. Caution

Do not reverse the order of (1) and then (2) described above.



5.Maintenance

5-1 Caution for maintenance

The storage temperature of this instrument should be between -10° C to $+70^{\circ}$ C at a relative humidity of 60% or less.

As the instrument case and bezel are mode of molded Plastic, do not use a volatile liquid such as thinner to clean them.

6.Warranty

This meter is warranted for a period of one year from date of delivery. Any defect which occurs in this period and is undoubtedly caused by Watanabe Electric Industry faults will be remedied free of charge. This warranty dose not apply to the meter showing abuse or damage which has been altered or repaired by others except as authorized by Watanabe Electric Industry.

7. After-sale service

This meter is delivered after being manufactured, tested and inspected under strict quality control. However, if any problem dose occur, contact your nearest Watanabe Electric Industry sales agent giving as much information on problem as possible.

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Homepage http://www.watanabe-electric.co.jp/en/