

We thank you for your purchase of this product. Please take care that this instruction manual is certainly delivered to the person in charge of operating it. For safety use of this product, please observe the following caution and also read the instructions to follow before the initial operation for proper operation of this analog indicator.

⚠ CAUTION

<p>To prevent electric shock, observe the following cautions:</p> <ul style="list-style-type: none"> ◆ Never make terminal connections with active lines. ◆ Ensure firm and tight connections to the terminals. ◆ Do not touch terminals while the instrument is powered on. 	<p>To avoid failure or malfunction of the instrument, do not use the instruments in such places where:</p> <ul style="list-style-type: none"> ◆ exposed to rain, water drops or direct sunlight. ◆ high temperature or humidity, much dust or corrosive gas. ◆ affected by external noise, radio waves or static electricity. ◆ where there is constant vibration shock.
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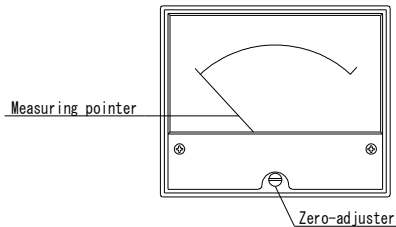
■ Check at Delivery

When the square and rectangle series analog meter is delivered to you, please check that its specifications conform to your requirement and that there is no damage in transit. This instrument is carefully inspected before delivery from factory under our strict quality control program, but if you find any defect or inconvenience, please inform us of the model name and serial number of the product.

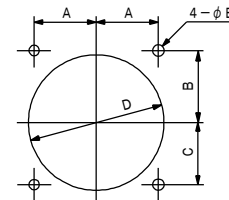
■ Cautions for Use

- ① This product is a precision instrument, so please take utmost care for its operation, installation or any other handling.
- ② In case of fear that this indicator suffers the surge voltage, ensure to ground one side of measuring input terminals.
- ③ Use this product within the range of its specifications and rates.

■ Name of Parts



■ Panel Cut-Out Dimensions



Refer the panel cut dimensions to the table below.

■ Connections

Measuring input terminals of this instrument are M3 to M4 screw. Make correct and firm connections with crimp type terminal or like Optimum fastening torque.

- M 3 screw: 0.36 to 0.48 N·m
- M 4 screw: 0.74 to 0.88 N·m

■ Installation

Insert the instrument from the front and fasten the fixing bolts provided at four corners on the back, with the attached nuts.

Optimum fastening torque

- M 2.3 nut: 0.21 to 0.27 N·m
- M 3 nut: 0.36 to 0.48 N·m
- M 4 nut: 0.82 to 1.11 N·m

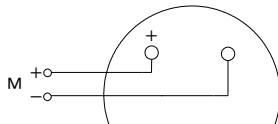
Unit: mm

Model	Dimensions				
	A	B	C	D	φ E
R-25C	50	55	25	67	5
R-25C ₁	40	38.5	25.5	67	4
R-25B ₁	32	32	32	67	4
R-2B	24	24	24	54	4
R _P -25	32	32	32	67	4
R _D -21	24	24	24	54	4

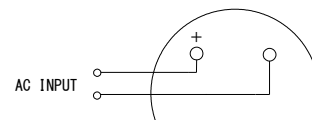
Note: R_D-21 has just two locations for fixing nuts and bolts.

● Measuring Input Terminals

- ① DC voltmeter / DC ammeter / Receiving meter
Connect the measuring input with correct polarity.
When it is designated, an accessory should be connected.



- ② AC voltmeter / AC ammeter
Connect the measuring input.
When it is designated, an accessory should be connected.



■ Operation

- ① Confirm the rated input and that the connection of the terminals are correctly made.
- ② Before starting the measurement, confirm that the pointer indicates zero position.
(When the rated input is 4 to 20 mA DC or 1 to 5 V DC, zero corresponds to 4 mA DC or 1 V DC which may be input to the measuring input terminals by standard voltage generator or else.)
If there is deviation from zero, adjust it to 0 turning a zero-adjuster provided on the front of the instrument.

Note)

When the input impedance at the input rating DC1 to 5 V with the specification of 7331 accessory having more than 1 MΩ is inserted the auxiliary power with opened condition of input terminal of 7331, the measuring pointer indicates more than the upper limit of the scale.

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