1. MOUNTING

**WARNING**

To prevent injuries to persons, damage to the instrument, and the equipment, Installation work shall be conducted by professionals with electric circuits knowledge.
- **Precaution**

**CAUTION**

- Do not touch high-voltage connections such as power supply terminals, etc., to avoid electric shock.
- Use a non-contact voltage detector to check the absence of voltage in each terminal. Always turn off the power before work.

**NOTICE**

- This manual assumes that the reader has a fundamental knowledge of the principles and techniques required to install, operate and maintain this type of instrument. For detailed handling, refer to the separate manual.

1.1 Mounting Precautions

- Do not mount the instrument in a narrow space or location with extreme heat. Space should be provided for ventilation to prevent overheating.
- Ensure that the instrument is installed securely. Do not use the instrument in a location where it may be exposed to excessive induction noise, static electricity, magnetic fields or noise.

1.2 Dimensions

**Fig. 1**

2. WIRING

To prevent electric shock or malfunction, do not connect power unit wiring when the instrument is being operated. Make sure that the wiring is correctly connected before supplying power to the instrument.

2.1 Wiring Precautions

- Use the same color-coded wires for input and output signals to avoid confusion. Use color-coded wires with insulation of 0.25 to 1.65 mm².
- **Precautions**

2.2 Terminal Configuration

- Use the input/output terminals to connect sensors, measurement devices, and control devices. Use shielded cables for input/output connections to reduce interference.

3. PARTS DESCRIPTION

- The parts described in this manual are illustrated in the following diagrams. The parts illustrated are labeled with their respective numbers.

4. References

- This product is intended for use with industrial machines, test and measuring equipment. (It is not designed for use with medical equipment and nuclear energy plant.)
4. SPECIFICATIONS

- **Measurement:**
  - TC input: 1 point
  - RTD input: 1 point
  - Voltage input: 1 point
  - Current input: 1 point

- **Allowable input range:**
  - Voltage input: 0 V to 350 V
  - Current input: 0 mA to 5 A

- **Influence of input lead (RTD input):**
  - Approximately 0.004 %/m (C to G range)

- **Communication (RS-485):**
  - Sampling cycle: 1 second
  - Communication speed: 9600 baud
  - Parity bit: 1

5. MODEL CODE

- **Suffix code:**
  - P240: RTD input
  - P260: Voltage input
  - P280: Current input

- **Quick start code (initial setting code):**
  - (1) Digital output 1 (DO1): function selection
  - (2) Digital output 2 (DO2): function selection
  - (3) Digital output 3 (DO3): function selection
  - (4) Digital output 4 (DO4): function selection

6. ERROR DISPLAYS

- **Self-diagnostic error:**
  - Error code: 4

7. CONNECTING A LOADER CONNECTOR

- **Contact pin assignment:**
  - Connector A: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
  - Connector B: MA, MB, MC, MD, ME, MF, MG, MM, MN, MO

- **Communication (CANopen):**
  - Output voltage: 0/14 V DC (Rated)
  - OFF voltage: 12 to 17 V

- **Voltage supply:**
  - 85 to 264 V AC
  - 100.0 to +200.0 V DC
  - 100.0 to +100.0 V DC

- **Measurable current range:**
  - 20 mA or less (at 24 V DC)

- **PV bias:**
  - 0.00 to 25.00 % of input span

- **PV low input cut-off:**
  - 0.00 %

- **Input accuracy:**
  - ±0.1 % of span (100 to 240 V AC, 24 V AC)
  - ±0.5 % of span (100 to 240 V AC, 24 V AC)
  - ±1.0 % of span (100 to 240 V AC, 24 V AC)

- **Input span:**
  - 0.00 to 50.00
  - 200.0
  - 400.0

- **Proportional cycle time:**
  - 0.1 to 100.0 seconds

- **Allowable load resistance:**
  - 250 V AC 3 A, 30 V DC 1 A

- **OFF voltage:**
  - 0.5 V or less

- **Power supply voltage:**
  - 100 to 240 V AC

- **Quick start code (Initial setting code):**
  - P240: RTD input
  - P260: Voltage input
  - P280: Current input

- **Contact pin assignment:**
  - Connector A: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
  - Connector B: MA, MB, MC, MD, ME, MF, MG, MM, MN, MO

- **Communication (CANopen):**
  - Output voltage: 0/14 V DC (Rated)
  - OFF voltage: 12 to 17 V

- **Voltage supply:**
  - 85 to 264 V AC

- **Proportional cycle time:**
  - 0.1 to 100.0 seconds

- **Allowable load resistance:**
  - 250 V AC 3 A, 30 V DC 1 A

- **Power supply voltage:**
  - 100 to 240 V AC

- **Quick start code (Initial setting code):**
  - P240: RTD input
  - P260: Voltage input
  - P280: Current input

- **Contact pin assignment:**
  - Connector A: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
  - Connector B: MA, MB, MC, MD, ME, MF, MG, MM, MN, MO

- **Communication (CANopen):**
  - Output voltage: 0/14 V DC (Rated)
  - OFF voltage: 12 to 17 V

- **Voltage supply:**
  - 85 to 264 V AC

- **Proportional cycle time:**
  - 0.1 to 100.0 seconds

- **Allowable load resistance:**
  - 250 V AC 3 A, 30 V DC 1 A

- **Power supply voltage:**
  - 100 to 240 V AC