1. MOUNTING

To prevent electric shock or instrument failure, always turn off the power before mounting or removing the instrument.

1.1 Mounting Cautions

(1) Communication terminal
(2) Level sensor output and Grounding terminals

1.2 Dimensions

Panel thickness: 1.6 to 10 mm (with holes for cable through-wall) (for RMC-550L)
Panel thickness: 1.6 to 10 mm (with holes for cable through-wall) (for RMC-550)

1.3 Procedures of Mounting and Removing

Mounting procedures

1. Insert the terminal block into the instrument.
2. Push the terminal block until the stopper is locked.
3. Pull out the instrument while holding the front panel frame.
4. Lift the latch of the mounting bracket (Fig. 4) to remove it from the case. (Fig. 4)

Removing procedures

1. Remove the wire.
2. Loosen the screw of the mounting bracket.
3. Lift the latch of the mounting bracket (Fig. 3) to remove it from the case. (Fig. 4)
4. Pull out the instrument from the mounting cutout while holding the front panel frame of the instrument. (Fig. 5)

2. WIRING

To prevent electric shock or instrument failure, do not turn on the power until wiring is completed. Make sure that the wiring is correct before applying power to the instrument.

2.1 Wiring Cautions

(1) Communication terminal
(2) Level sensor output and Grounding terminals
(3) Power terminals

2.2 Level Sensor Connection Cautions

(1) Communication terminal
(2) Level sensor output and Grounding terminals
(3) Power terminals

3. Terminal Configuration

(1) Communication terminal
(2) Level sensor output and Grounding terminals
(3) Power terminals


can occur and warranty is void under these conditions.

This manual assumes that the reader has a fundamental knowledge of the principles of electricity, process control, computer technology and communications.

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3. PARTS DESCRIPTION

Level sensor input connector

- **Pin No.**
  - 0: Grounding electrode (G)
  - 1: Level sensor input connector (Metal tank or Reservoir tank)
  - 2: Inside common (Shield)
  - 3: Measuring electrode (level sensor)
  - 4: Reference electrode

- **Pin No. 5 (MT or SC)** is necessary when using with the Level sensor in a Metal tank or Reservoir tank. (Use the X output from the MT or SC (Level sensor in a Metal tank or Reservoir tank))

- The Level sensor input connector resembles a USB connector; however, it is not a USB connector. Do not connect it to a USB device. This may cause failure.

- **Wiring example**
  1. Using a C1-EDW (2-wire electrode) unit (Measuring/Grounding electrode).

- **Special connector**
  - For details of connecting the Level sensor, refer to the instruction manual for each Level sensor.

4. SPECIFICATIONS

- **Input**
  - Measured Input (PV)
  - Input type and range:
    - 0 to 200 pF
    - 0 to 180 pF
    - 3 to 200 pF
    - 0 to 180 pF

- **Level display range**
  - (Display span)
  - 0 to 9999 (No decimal place)

- **Decimals point position**
  - No decimal place, One decimal place, Two decimal places

- **Input range**
  - Input range (Input span)
  - 0 to 6 pF

5. MODEL CODE

### Suffix code

**RMC-500**

- **(1) Input type**
  - 1: Input type (2 to 1) 2: Input type (2 to 1) 3: Input type (2 to 1) 4: Input type (2 to 1) 5: Input type (2 to 1) 6: Input type (2 to 1) 7: Input type (2 to 1)

- **(2) Power supply voltage**
  - 3: 24 V AC/DC 4: 100 to 240 VAC

- **(3) Communication (DO1 (Event 1), DO2 (Event 2), DO3 (Event 3), DO4 (Event 4), DO5 (Event 5), DO6 (Event 6))**
  - 0-point (DO1 (Event 1), DO2 (Event 2), DO3 (Event 3), DO4 (Event 4), DO5 (Event 5), DO6 (Event 6))

- **(4) Transmitting function**
  - 4: Transmission (DO1 (Event 1), DO2 (Event 2), DO3 (Event 3), DO4 (Event 4), DO5 (Event 5), DO6 (Event 6))

- **(5) Communication**
  - 0: No communication 1: RCM communication 2: Improving communication protocol Modbus-RTU

- **(6) Command input**
  - 0: No command input 1: Optional 2: Optional 3: Optional

- **(7) Initial code**
  - Do not use the Initial code. Use the command input to specify the parameters to be set with the factory. **Initial code tells the factory to ship with each parameter preset to the values detailed as follows.**

### General specifications

- **Power supply voltage**
  - 40 to 264 V AC [Including power supply voltage variation]
  - 90% to 100% (100% to 240 V AC)
  - Frequency variation: 50 Hz to 60 Hz
  - 24V DC (Supply voltage 24 V DC)

- **Power consumption**
  - 100 V AC, 7 A or less 24 V DC: 12 W or less

- **Weight**
  - Approx. 180 g

### Initial code

Initial code tells the factory to ship with each parameter preset to the values detailed as described above, but the factory will not specify the set values when ordering, unless otherwise specified. These parameters are software selectable items and can be programmed in the field following procedures found in the manual.