

Chapter 6. INSTALLATION AND WIRING

6.1 Installation

6.1.1 Installation Ambience

This module has high reliability regardless of its installation environment, but be sure to check the following for system reliability and stability.

1) Ambience requirements

Avoid installing this unit in locations which are subjected or exposed to :

- Water leakage and dust.
- Continuous shocks or vibrations.
- Direct sunlight.
- Dew condensation due to rapid temperature change.
- Higher or lower temperatures outside the range of 0 to 55 °C

2) Precautions during installing and wiring.

- During drilling or wiring, do not allow any wire scraps to enter into the PLC.
- Install it on locations that are convenient for operation.
- Make sure that it is not located on the same panel that high voltage equipment located.
- Make sure that the distance from the walls of duct and external equipment be 50 mm or more.
- Be sure to be grounded to locations that have good ambient noise immunity.

6.1.2 Handling Precautions

From unpacking to installing the RTD input module, be sure to check the following:

- 1) Do not drop it off, and make sure that strong shock should not be applied.
- 2) Do not unload the PCB from its case. It can cause faults.
- 3) During wiring, be sure to check any foreign matter like wire scraps should not enter into the upper side of the PLC. If any foreign matter has entered into it, always eliminate it.
- 4) Do not load or unload the module while the power supply is being connected.

6.2 Wiring Precautions

- 1) When connecting Pt with the RTD input module, refer to the Chapter 2.5 for wiring.
- 2) Be sure to separate the external input signal of the RTD input module from an alternating current so that surge or induction noise generated from the alternating current could not effect.
- 3) When wiring, locating this unit too near from high temperature generating devices or materials or contacting it with the material like oil can cause short-circuit and occur damage or disorder.
- 4) When wiring to the terminal block, wiring with high-pressure wire or power supply wire can occur flow inhibition and cause disorder or malfunction.
- 5) Make sure that electric wires do not pass before the LED display. It causes the digital values not to be identified.