1. Safety Precautions

Before starting the installation work, please read these "Safety Precautions" and follow them properly. All of the following are important and must be observed strictly.

**WARNING:** Failure to follow these instructions properly may result in serious consequences such as death and severe injury.

**CAUTION:** Failure to follow these instructions properly may cause injury or property damage. There could be serious consequences depending on the circumstances.

The following pictograms are used in the text.

- Never do. Always follow the instructions given.
- Before installation, please make a test run and confirm no abnormalities occur during the test run.
- Please explain the operation method to the customers according to the user's manual and product specifications.
- Keep this manual in a safe place where users can consult it whenever needed. Show this manual to installers when moving or repairing the gateway. When the ownership of the gateway is transferred, this manual should be given to the new owner.

**WARNING**

- Consult your dealer or a professional contractor to install the gateway.
- Improper installation done on your own may cause electric shock, fire or breakdown.
- Installation work should be performed properly according to this installation manual. Improper installation work may result in electric shock, fire or breakdown.
- Be sure to use accessories and specified parts for installation work. Use of unspecified parts may result in falls, fire or electric shock.
- Choose an installation location inside a locked enclosure. Otherwise, electric shock or incorrect operation may result.
- The electrical work should be performed by a qualified electrical engineer, according to electrical standards, local electrical safety regulations and wiring specifications. Incomplete installation work may cause electric shock or fire.
- Turn off the power supply before starting electrical work or repairing/inspecting the gateway. Otherwise, electric shock, injury, breakdown or malfunction may result.
- Do not modify the gateway. Otherwise, electric shock, fire or breakdown may result.
- Do not install the gateway in a special environment or where inflammable gas could generate, flow in, accumulate or leak. If the gateway is used in places where air contains dense oil mist, steam, organic solvent vapor, corrosive gas ammonia, sulfuric compounds, acid, etc.) or where acidic or alkaline solutions, special sprays, etc., are used, electric shock, breakdown, smoke or fire may result due to corrosion or significant deterioration of the performance.
- Do not install the gateway where excessive water vapor is generated or condensation occurs. Otherwise, electric shock, fire or breakdown may result.
- Do not use the gateway in a place where it can get wet, such as a laundry room. Otherwise, electric shock, fire or breakdown may result.
- Do not operate the gateway with wet hands. Otherwise, electric shock may result.
- Do not wash the gateway with water. Otherwise, electric shock, fire or breakdown may result.
- When wiring, ensure solid connections and fasten specified cables securely so that terminal connections may not be subject to external forces from cables. Incomplete connection or improper connection of terminal wiring may cause electric shock or fire.

2. Accessories

Gateway main unit, CD-ROMs (Manual and Energy consumption calculation software: 1 each), Round-type crimp-style terminals (Large: 2, Small: 4)

3. Installation Work

3.1 Installation location

The installation location should be a cool place indoors with enough cooling air circulation.

3.2 Parts procured on site

Before installing the gateway, prepare the following parts.

- Main body installation screws (M4) x 4
- Wiring (Refer to "4. Wiring")
- Leakage breaker

3.3 Installation procedure

Install the gateway in the orientation shown in the figure below and so that letters can be read correctly. Any other orientation may cause cooling failure of internal parts that may result in a malfunction or breakdown.
3.4 Installation clearances

For cooling and service work, provide the following clearances above and below and to the right and left.

- **Bottom clearance:** Min. 100 mm (Recommended length of 200 mm or more) - Space for wiring and service
- **Top clearance:** Min. 30 mm - Space for cooling
- **Left clearance:** Min. 30 mm - Space for cooling
- **Right clearance:** Min. 30 mm - Space for cooling

---

4. Wiring

- Use the supplied round-type crimp-style terminals (large) when connecting wires to the power supply terminal block.
- Do not turn on the power supply (power switch) until all of the work is completed.
- Except for the accessories, all of the components are obtained at the site.
- Before connecting the wires, remove the cover of the terminal block.
- After the work has been completed, return the cover of the terminal block to its original position.
- The cover is used to prevent electric shock from accidental contact.
- Perform grounding work. Wire the ground for the power supply to Grounding point (1), shown in the diagram for "3.4 Installation clearances".
- Use the Wiring clamp beside the power LED to fasten the wires connected to the power supply terminal block.

**Superlink signal line**

Shielded wire (2 core, 0.75 mm² - 1.25 mm²)

- Wire the ground for the Superlink system to Grounding point (2), shown in the diagram for "3.4 Installation clearances".
- Note 1: When the gateway is used, use a shielded wire as the Superlink signal wire. Ground both ends of the shielded wire.
- Note 2: Choose either the new or previous setting for Superlink. (See user’s manual.) Whether the actual connection network is the new Superlink or previous Superlink depends on the type of connected indoor unit, outdoor unit, etc. Contact your sales representative or dealer for more information.
- Note 3: Be sure to use the supplied round-type crimp-style terminals (small) when connecting wires to the Superlink terminal block.

**Emergency stop line, gas meter or watt-hour meter line**

- 0.75 mm² - 1.25 mm²
- For safety reasons, use the round-type crimp-style terminals with insulated sleeves for connecting all wires to terminal blocks.
- Wire as shown below.

(1) Upper tier of terminal block

- Be sure to use the supplied round-type crimp-style terminals (S).

(2) Lower tier of terminal block

- Please connect a gas meter or a watt-hour meter that satisfies the specifications below.
  - Meter with pulse transmitter
  - Meter with pulse width of 80 ms or more
- The energy consumption calculated by this gateway does not conform to OIML, and there are no guarantees concerning the results of the calculations.
- For selecting the gas meter or the watt-hour meter, please refer to the technical manual.