This manual is written only for the models
PU(H)-P1.6~3VGA, PU(H)-P1.6~6YGA,
PU(H)-P1.6~4VGAA, PU(H)-P1.6~6YGA,
and PUH-P8, 10YE.

SAFETY PRECAUTIONS

Before starting installation, read the “Safety Precautions” described below.

The safety precautions are described with the degree of danger.

WARNING
When you handle wrong, it can lead to death or serious injury.

CAUTION
When you handle wrong, it can lead to injury or damage to building and furniture.

After installation, make test operation and confirm that it works properly, and explain the safety precautions, operation method, and maintenance to your customers.

Tell your customers to keep this installation manual together with operation manual with them, and when they give or sell this machine to other person put this installation manual and operation manual with it.

WARNING

The installation must be done by dealer or qualified person.

The installation must be done in accordance with this manual.

Never try any modification.

Never move or reinstall the machine by the customers.

The wiring must be securely done by using proper cable. The wires should be connected to the terminals not to have external force of the cable.

Put ground wire.

Never turn the power off as soon as the machine stops.

Never operate the switches with your hand wet.

Never operate the machine without guard off.

Never operate the machine without air filter off.

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Never turn the power off as soon as the machine stops.
2. Installation procedure (PU(H)-P1～4VGA, PU(H)-P1.6～6YGA)

1. Put the Support (4 pcs) to the (4) holes on the right side of the electric box.
   - Be sure to insert the insert direction.

2. Install the M-NET board (1) so that the (SW1, SW12) come front.
   - Put it securely until it sounds click.

3. Install the Terminal bed (M-NET) (1) on the Terminal base (3).
   - The Terminal base (1) has round boss for positioning.
   - Match round boss to the holes of the Terminal base (3).

4. Put the label (3) on the Terminal base (3).
   - Not to close the hole for M-NET ground.

5. Install the Terminal base (3) on the bottom inside of the electric box.

Setting example:

<table>
<thead>
<tr>
<th>M-NET address No.</th>
<th>1</th>
<th>2</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch set</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW11 (1st digit)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW12 (2nd digit)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Make M-NET address setting with the rotary switches SW11 (1st digit) and SW12 (2nd digit) on the M-NET board 1.
M-NET address should be set between 1 and 50.
(The factory setting is all zero.)
- Refer to attached sheet for setting method.

The DIP switch (SW1) on the board are used to check the status of communication. Operate the switch when necessary.
2. Installation procedure (PUH-P8, 10YE)

1. Put the Support ② to the (4) holes on the base of the electric box.
   - Be sure to insert the insert direction.

2. Install the M-NET board ③ so that the (SW11, SW12) come front.
   - Put it securely until it sounds click.

3. Install the Terminal bed (M-NET) ④ on the base of the electric box.

4. Put the Label ⑤ on the base of the electric box.

5. Connection of M-NET board (CN2M) and Terminal bed (Terminals A & B)

6. Connection of M-NET board (CN5) and Control board (CNWNT)

7. Connection of M-NET board (CN8) and Control board (CNWNT)

8. Connection of M-NET board ① and the connector CNWNT on the control board.

9. Connection of M-NET board ① and the connector CNMNT on the control board.

10. Connection of M-NET board ① and the terminals A & B on the terminal bed (M-NET) ③.
    - No polarity.

11. The lead wires should be tied together with the other lead wires with the pull tight ⑤ not to loose.

12. M-NET address setting with the rotary switches, SW11 (1st digit) and SW12 (2nd digit) on the M-NET board ①.
    - M-NET address should be set between 1 to 50.
    - (The factory setting is all zero.)
    - Refer to attached sheet for setting method.

The DIP switch (SW1) on the board are used to check the status of communication. Operate the switch when necessary.

<table>
<thead>
<tr>
<th>SW1 settings</th>
<th>LED3,4 display contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>M-NET</td>
<td>The lamp flashes</td>
</tr>
<tr>
<td></td>
<td>approximately once</td>
</tr>
<tr>
<td></td>
<td>a minute in accordance</td>
</tr>
<tr>
<td></td>
<td>with the status of</td>
</tr>
<tr>
<td></td>
<td>communication</td>
</tr>
<tr>
<td>Inter-board</td>
<td></td>
</tr>
<tr>
<td>communication</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Blinks every 1.5</td>
</tr>
<tr>
<td></td>
<td>second</td>
</tr>
</tbody>
</table>

\[ \text{Setting example} \]

<table>
<thead>
<tr>
<th>M-NET address No.</th>
<th>1</th>
<th>2</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switch set</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW11 1st digit</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW12 2nd digit</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Wiring method for M-NET

1. Attention
   (1) Outside of the unit, the wires for transmission (called for transmit wires later) should keep away (5 cm or more) from power cable not to receive electric noise. (Never put the transmit wires and power cable in the same cable pipe.)
   (2) Never supply voltage 220V-240V to the terminals (TB7) for transmission. If the voltage is supplied, it can break the electronic parts on the A-M CONVERTER board.
   (3) Use the shielded cable (CVVS, CPEVS) of 1.25mm square thickness with 2 wires for the transmission cable.
   Never use transmit wires of different system with a cable which contains multi wires.
   The communication of transmit signals will not work properly and it can cause wrong operation.

Between the outdoor units, it is OK that only M-NET wiring (2 wires, no polarity) is done.

2. M-NET address setting
   Make M-NET setting and refrigerant address setting on only outdoor unit.
   There is no address settings for outdoor unit and remote controller like free plan system.

The M-NET address setting for taking into centralized control system should be done only to the outdoor unit. The address set number should be 1-50 as for free plan indoor unit and make set in order of number for the same group.

<table>
<thead>
<tr>
<th>A control slim</th>
<th>Free plan (M-NET)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Indoor unit</td>
<td>1~50</td>
</tr>
<tr>
<td>Outdoor unit</td>
<td>1<del>50 51</del>100</td>
</tr>
<tr>
<td>Remote controller</td>
<td>101~150</td>
</tr>
<tr>
<td>System controller</td>
<td>201~250</td>
</tr>
<tr>
<td>Group remote controller</td>
<td>201~250</td>
</tr>
</tbody>
</table>

The setting should be done by rotary switches SW11 for one figure and SW12 for double figures on A-M CONVERTER of the outdoor unit. (Factory settings are all zero.)

3. Refrigerant address setting
   In case that the A control Slim is set for group between different refrigerant (when multiple refrigerant system is set in one group), it is necessary to make refrigerant address setting besides the wiring for remote controller (TB5) between the indoor units.
   In case that the group setting is not done, be sure to leave the refrigerant address set for 00.
   The refrigerant address is set by dip switch SW1 (3-6) on the outdoor controller of the outdoor unit.
   (Factory settings are all OFF — Refrigerant address 00).

4. Limitation for address settings
   In case of group operation, the M-NET address settings and the refrigerant address settings should be done with the procedure above.
   However, make the minimum M-NET address settings in the group for the outdoor unit which has the refrigerant address 00.

It does not matter if the refrigerant address settings are same with the different group.

It is not good with the above setting in the group B because the outdoor unit which has the refrigerant address 00 does not have the minimum M-NET address 3 in the group. Make the outdoor unit of the refrigerant address set with the minimum address in the group like the group A.

RG79B202H05
Attention for A control Slim M-NET connection

Pay attention to the next points for wiring of shielded wires.

**CAUTION**

The shielded wires of M-NET transmission should be connected with the ground wire at any only one place of the unit to be connected.

- It can cause the transmission error due to noise.
  - Outdoor unit digital LED display reads "Ed" error.
  - Centralized control remote controller reads "0403" error.

**Bad example (Multiple ground of shielded wire)**

- Centralized control remote control
- Power supply unit
- Outdoor unit corresponds to M-NET
- Outdoor unit corresponds to M-NET
- Outdoor unit corresponds to M-NET

**Good example (One spot ground of shielded wire)**

- Centralized control remote control
- Power supply unit
- Outdoor unit corresponds to M-NET
- Outdoor unit corresponds to M-NET
- Outdoor unit corresponds to M-NET

※In case that the outdoor unit is grounded, connect the ground wire supplied as accessory to the S terminal (secondary) of M-NET terminal bed and M-NET Ground terminal inside of electric box with using screws supplied.