Set up the PR300 First

1. Turn on the PR300. The PR300 shows the station number for about 5 seconds, then the Measured Value screen appears.

2. Hold down \( \text{YES} \) for at least 3 seconds. The Parameter screen appears.

3. Simultaneously hold down \( \text{YES} \) for at least 3 seconds. The Specification Change Confirmation screen appears.

4. Using \( \text{YES} \) or \( \text{NO} \), show \( \text{YES} \) on the lower display.

5. Press once. The Phase and Wire System screen appears.


7. Using \( \text{YES} \) or \( \text{NO} \), select the setpoint.

8. Press once to blink the setpoint.

**Phase and Wire System Setting screen**

- **To re-set the parameter**: While all digits of the setpoint are blinking, press any key other than \( \text{YES} \) or \( \text{NO} \). The PR300 returns to the initial setting screen.

- **Changing the voltage range**: When proceeding to set the voltage range, start from Step 4 in Section 1.2, “Setting the Voltage Range,” with this screen (figure on the left) shown as is.

- **Simultaneously hold down \( \text{YES} \)**: Setpoints are confirmed and the PR300 returns to the Phase and Wire System screen.

- **Press \( \text{YES} \)**: The setpoint is confirmed and the PR300 returns to the Phase and Wire System screen.

- **Press any key other than \( \text{YES} \) or \( \text{NO} \)**: The PR300 returns to the initial setting screen.

**Phase and Wire System screen**

- **Parameter symbol for Current value**: Shows the unit symbol of a measured value for each measurement item. These unit symbols are shown in combination depending on the type of measured value.

- **Parameter symbol for Demand value**: Shows the unit symbol of a measured value for each measurement item. These unit symbols are shown in combination depending on the type of measured value.

**Range of Phase and Wire System Options**

<table>
<thead>
<tr>
<th>Parameter Symbol</th>
<th>Parameter Name</th>
<th>Setting Type</th>
<th>Setting Range (Details)</th>
<th>Initial Value (Factory-set Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>( P )</td>
<td>Phase and wire system</td>
<td>Selection</td>
<td>Model and Suffix Codes</td>
<td>Three-phase three-wire system</td>
</tr>
<tr>
<td>( H )</td>
<td>Phase and wire system</td>
<td>Selection</td>
<td>Model and Suffix Codes</td>
<td>Three-phase four-wire system</td>
</tr>
</tbody>
</table>

**Component Names and Functions**

- **Demand Alarm lamp (Red)**: Lights up if the measured value exceeds the demand alarm setting. The lamp (green) in the key lights up in the demand measurement mode.
- **Phase and Wire System lamps (Green)**: Shows a measured value of power, energy, etc. Also shows a parameter symbol and the setpoint at the time of parameter setting.
- **Power lamp (Green)**: Lights up when the maximum or minimum value is displayed.
- **Unit lamps (Red)**: Shows the unit symbol of a measured value for each measurement item. These unit symbols are shown in combination depending on the type of measured value.
- **MAX and MIN lamps (Red)**: Shows a measured value of demand power or demand current. Also used to set parameters on the Parameter screen.
- **Operation keys**
  - Pressing \( \text{YES} \) or \( \text{NO} \) does not change the measured value. Pressing and holding \( \text{YES} \) or \( \text{NO} \) changes the measured value.
  - Pressing and holding \( \text{YES} \) or \( \text{NO} \) changes the measured value.

**Specifications**

- Model and Suffix Codes:
  - PR300-EX001-01
  - PR300-EX002-01
  - PR300-EX003-01
  - PR300-EX004-01
  - PR300-EX005-01

- **Demand value**
  - \( P \) (three-phase three-wire system)
  - \( P \) (three-phase four-wire system)

- **Phase measurement**
  - \( H \) (three-phase three-wire system)
  - \( H \) (three-phase four-wire system)

- **Demand alarm value**
  - \( D \) (three-phase three-wire system)
  - \( D \) (three-phase four-wire system)
1.2 Setting the Voltage Range

This section explains how to set the voltage range by taking as an example the case when the voltage range is changed from 300 V to 600 V.

### Startup screen

1. Turn on the PR300.

The PR300 shows the station number for about 5 seconds, then the Measured Value screen appears.

### Measured Value screen

2. Hold down \( \text{Volt} \) for at least 3 seconds.

The PR300 shows the startup screen for about 5 seconds, then the Measured Value screen appears.

### VT Ratio screen

3. Simultaneously hold down \( \text{Volt} \) and \( \text{Setpoint} \) for at least 3 seconds.

The specification change confirmation screen appears.

### Specification Change Confirmation screen

4. Using \( \text{Volt} \) or \( \text{Setpoint} \), show the value YES on the lower display.

### Specification Change Confirmation screen

5. Press \( \text{Volt} \) once.

The VT ratio setting screen appears.

### Voltage Range Setting screen

6. Using \( \text{Volt} \) or \( \text{Setpoint} \), show the Voltage Range screen.

The voltage range of single-phase three-wire system is fixed at 300V (between P0 and P1, P0 and P2, P0 and P3). The voltage range cannot be selected.

### Voltage Range screen

7. Press \( \text{Volt} \) once.

The voltage range selection screen appears.

### Voltage Range Setting screen

8. Using \( \text{Volt} \) or \( \text{Setpoint} \), select the setpoint.

The setpoint is confirmed and the PR300 returns to the VT Ratio screen.

### VT Ratio screen

9. Press \( \text{Volt} \) once to blink the setpoint.

The setpoint is confirmed and the PR300 returns to the initial setting screen.

### Setting completed.

When proceeding to set the phase and wire system, press \( \text{Setpoint} \) once while all digits of the setpoint are blinking. The PR300 returns to the initial setting screen.

### Parameter Symbol Parameter Name Setting Type Setting Range (Details) Initial Value (Factory-set Value)

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Setting Type</th>
<th>Setting Range (Details)</th>
<th>Initial Value (Factory-set Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT ratio</td>
<td>Integer</td>
<td>1 to 6000</td>
<td>300V</td>
</tr>
</tbody>
</table>

The initial value of the measured voltage screen (display pattern) is upper display: active power, middle display: voltage (phase switch indication), and lower display: current. The display pattern setting procedures, refer to the PR300 Power and Energy Meter Users Manual (IM 77C01E01-01E).

NOTE

- The PR300 shows the station number for about 5 seconds, then the Measured Value screen appears.
- The PR300 shows the VT Ratio screen.
- The PR300 returns to the initial setting screen.

### Parameter Symbol Parameter Name Setting Type Setting Range (Details) Initial Value (Factory-set Value)

<table>
<thead>
<tr>
<th>Parameter Name</th>
<th>Setting Type</th>
<th>Setting Range (Details)</th>
<th>Initial Value (Factory-set Value)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VT ratio</td>
<td>Integer</td>
<td>1 to 6000</td>
<td>300V</td>
</tr>
</tbody>
</table>

NOTE

- The parameter VT ratio appears.
- The PR300 shows the VT Ratio screen.
- The PR300 returns to the initial setting screen.

### 2. Setting the VT and CT Ratios

This section explains how to set the VT ratio by taking as an example the case when the VT ratio is changed from the initial value (1.00) to 4.00. Prior to proceeding to the following steps, ensure that the PR300 is turned on, and the Measured Value screen is displayed.

2.1 Setting the VT Ratio

1. Hold down \( \text{Volt} \) for at least 3 seconds.

The VT ratio setting screen appears.

### VT Ratio screen

2. Press \( \text{Volt} \) once.

The parameter VT ratio appears.

### VT Ratio Setting screen

3. Press \( \text{Volt} \) once.

The screen changes to the one for setting the VT ratio and the alterable digit blinks.

### VT Ratio Setting screen

4. Press \( \text{Volt} \) once to fix the position of the decimal point.

### VT Ratio Setting screen

5. Press \( \text{Volt} \) once to re-set the parameter.

### VT Ratio Setting screen

6. Press \( \text{Volt} \) once to blink the setpoint.

### CT Ratio Setting screen

7. Press \( \text{Volt} \) once while the setpoint is blinking.

### CT Ratio Setting screen

8. Press \( \text{Volt} \) once to return to the Measured Value screen.

### Setting completed.

When proceeding to set the CT ratio, press \( \text{Volt} \) once and start from step 3 in Section 2.2, “Setting the CT Ratio.”

### Setting the CT Ratio

1. Hold down \( \text{Volt} \) for at least 3 seconds.

The CT ratio setting screen appears.

### CT Ratio screen

2. Press \( \text{Volt} \) once.

The parameter CT ratio appears.

### CT Ratio Setting screen

3. Press \( \text{Volt} \) once.

To move the decimal point, use the following keys:

- To the left
- To the right

### CT Ratio Setting screen

4. Press \( \text{Volt} \) once to fix the position of the decimal point.

### CT Ratio Setting screen

5. Using \( \text{Volt} \) or \( \text{Setpoint} \), change the setpoint.

### CT Ratio Setting screen

6. Press \( \text{Volt} \) once to blink the setpoint.

### CT Ratio Setting screen

7. Press \( \text{Volt} \) once while the setpoint is blinking.

### CT Ratio Setting screen

8. Press \( \text{Volt} \) once to return to the Measured Value screen.