**PR300**

**Universal three-phase three-wire system**
(single-phase two-wire, single-phase three-wire, and three-phase three-wire systems)

**Universal three-phase four-wire system**
(single-phase two-wire, single-phase three-wire, three-phase three-wire, and three-phase four-wire systems)

**Three-phase four-wire system (2.5 element)** Not combinable with 1A AC input.

**Universal voltage input (150 V, 300 V, 600 V) / 1 A AC**

**Universal voltage input (150 V, 300 V, 600 V) / 5 A AC**

**1 digital input**

**1 digital input, 1 analog output**

**1 digital input, 1 pulse output**

**1 digital input, 1 analog output, 1 pulse output**

**RS-485 communication**

**RS-485 communication, Ethernet communication**

**Demand measurement (1 demand alarm output)**

**100 – 240 V AC ± 10 % [50/60 Hz] or 130 – 300 V DC ± 15 %**

**A, B and C indications**

**R, S and T indications**

---

**Panel-mounted PR300 for Power Facilities**

& Monitoring Energy Consumption

- **Reduced wiring, increased accuracy, more data…**
- **System monitor**
- **Faster meter-reading with less interpretation…**
- **Demand monitor**
- **Information-sharing throughout the organization…**
- **Analyze electrical system parameters…**
- **For energy conservation and load-shedding…**

---

**Models and Suffix Codes**

<table>
<thead>
<tr>
<th>Model</th>
<th>PR300</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase and wire system</td>
<td>Universal three-phase three-wire system (single-phase two-wire, single-phase three-wire, and three-phase three-wire systems) Universal three-phase four-wire system (single-phase two-wire, single-phase three-wire, three-phase three-wire, and three-phase four-wire systems) Three-phase four-wire system (2.5 element) Not combinable with 1A AC input.</td>
</tr>
<tr>
<td>Input voltage/input current</td>
<td>Universal voltage input (150 V, 300 V, 600 V) / 1 A AC Universal voltage input (150 V, 300 V, 600 V) / 5 A AC</td>
</tr>
<tr>
<td>Additional input and output function</td>
<td>1 digital input 1 digital input, 1 analog output 1 digital input, 1 pulse output 1 digital input, 1 analog output, 1 pulse output</td>
</tr>
<tr>
<td>Communication function</td>
<td>RS-485 communication RS-485 communication, Ethernet communication</td>
</tr>
<tr>
<td>Optional measuring function</td>
<td>None Demand measurement (1 demand alarm output)</td>
</tr>
<tr>
<td>Power supply</td>
<td>100 – 240 V AC ± 10 % [50/60 Hz] or 130 – 300 V DC ± 15 %</td>
</tr>
<tr>
<td>Phase indication format</td>
<td>A, B and C indications R, S and T indications</td>
</tr>
</tbody>
</table>
PR300 is a panel-mounted meter designed to meet two user needs: a power facility meter and a meter for monitoring energy consumption.

Large Triple Display and Multifunction Function

Combine three desired measurement items and show them all at once on the large LED display. Just one PR300 unit can take the place of two or more meters, dramatically contributing to savings in cost, space and wiring.

- Examples of Display Item Combinations

<table>
<thead>
<tr>
<th>Display</th>
<th>Display Pattern-1</th>
<th>Display Pattern-2</th>
<th>Display Pattern-3</th>
<th>Display Pattern-4</th>
<th>Display Pattern-5</th>
<th>Display Pattern-6</th>
<th>Display Pattern-7</th>
<th>Display Pattern-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>Current*</td>
<td>Active power</td>
<td>Active energy</td>
<td>Current</td>
<td>Voltage</td>
<td>Current*</td>
<td>Active power</td>
<td>Maximum demand value</td>
</tr>
<tr>
<td>Voltage</td>
<td>Reactive power</td>
<td>LEAD reactive energy</td>
<td>Voltage</td>
<td>Current*</td>
<td>Active power</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower display</td>
<td>Active power</td>
<td>Power factor</td>
<td>Apparent energy</td>
<td>Voltage</td>
<td>Frequency</td>
<td>Power factor</td>
<td>Demand value</td>
<td></td>
</tr>
</tbody>
</table>

Note: The display pattern depends on the specification of the PR300.

Wide Choice of Measurement Items

- Voltage
  - Instantaneous value
  - Max. value
  - Min. value
- Current
  - Instantaneous value
  - Max. value
  - Min. value
- Active power
  - Instantaneous value
  - Max. value
  - Min. value
- Reactive power
  - Instantaneous value
  - Max. value
  - Min. value
- Apparent power
  - Instantaneous value
  - Max. value
  - Min. value
- Electric energy
  - Active
  - Passive
  - Reactive (LEAD)
  - Reactive (LAG)
  - Apparent
  - Optional
- Power factor
  - Instantaneous value
  - Max. value
  - Min. value
- Frequency
  - Instantaneous value
  - Max. value
  - Min. value
- Demand current
  - Demand value
  - Max. value
  - –
- Demand power
  - Demand value
  - Max. value
  - –

* denotes optional.

Universal Design

PR300 comes complete with functions necessary for efficient power monitoring, including power integration over a desired period, a transducer function (4 - 20 mA DC output), an integrated pulse output of electric energy, demand current/power alarm output functions, RS-485 communication (Modbus/PC link), and Ethernet communication.

- Universal Design
  - DIN96 square shape
  - ANSI 4-inch round shape
  - JS110 square shape

Other

- Accuracy Rating
  - Voltage: Current: ±0.25 % of F.S.
  - Active power: ±0.5 % of F.S.
  - Active energy, optional active energy: ±0.5 %
- External Dimensions (H × W × D mm)
  - ANSI 4-inch round form size: 110 × 110 × 128
  - DIN 96-square instrument size: 96 × 96 × 128
- Power Consumption
  - AC drive: 10 VA maximum, DC drive: 5 W maximum
Integrated power monitoring by DaqStation

The Ethernet-serial gateway function enables connection between the PR300 and RS-485 devices.

Data acquisition and monitoring using the recorder

Network instrumentation by DAQWORX

Capability of measuring energy and environmental factors

Capable of measuring energy and environmental factors

Connection with control devices is possible via the network (10BASE-T/100BASE-TX). Data logging is performed by PC.

Data logging by MW100

Monitoring is assisted by the browser, and data are transferred by the FTP function.

• Ethernet is a registered trademark of XEROX Corporation.