

Yokogawa Power and Energy Meters

- Multiple Measured Parameters – Power and Energy (Active, Regenerative, Reactive, Apparent) plus Voltage, Current, Frequency, Power Factor and Demand
- Selectable System Configurations – Single and Three Phase; Two, Three and Four Wire
- Selectable Input Voltage Range – 120V, 240V, 480V
- CT & PT Ratios Entered from the Front Panel
- Standard RS-485 and Optional Ethernet Communications with Modbus Protocol
- Analog and Pulse Outputs
- Digital Input for Integration Start/Stop or Demand Alarm Release
- ANSI 4" Round or DIN 96 Square Mounting

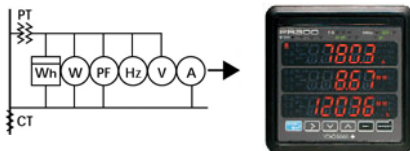


PR300
POWERCERT



DIGITAL METERS

A single unit replaces up to 11 analog meters, contributing to savings on cost, space and wiring.



Eight display screens are available on the PR300. The three parameters displayed in each screen are user selectable.

ORDERING INFORMATION

To Order—Insert Code for Each Letter to Select Catalog Number.
Order Example: PR300-42203-6A-0

PR300 - **A** **B** **C** **D** **E** - **F** **G** - 0

A	Basic Unit
3	Universal three-wire system (single-phase two-wire, single-phase three-wire, three-phase three wire)
4	Universal four-wire system (single-phase two-wire, single-phase three-wire, three-phase three-wire, three-phase four-wire)
5	Three-phase four-wire (2.5 element)
B	Input
1	Universal voltage (150/300/600V), 1A AC
2	Universal voltage (150/300/600V), 5A AC
C	Additional Inputs & Outputs
0	1 digital input
1	1 digital input, 1 analog output
2	1 digital input, 1 pulse output
3	1 digital input, 1 analog input, 1 pulse output
D	Communications
0	RS-485 (PC Link, Modbus ASCII & Modbus RTU protocols)
3	Ethernet (Modbus TCP protocol)*
E	Optional Measuring Functions
0	None
3	Demand measurement (1 demand alarm output)
F	Power Supply
6	100-240V AC (50/60Hz) or 130-300V DC
G	Phase Indication
A	A, B, C
R	R, S, T

*Ethernet includes RS-485 for communication to other PR300 meters

SPECIFICATIONS

Accuracy:	Active energy	±0.5%
	Active power	±0.5% of FS
	Voltage, Current	±0.25% of FS
	Frequency	±0.5Hz
	Demand	±0.5%
Max. Input Voltage:	150V, 300V, 600V	
Max. Input Current:	1.2X FS continuous, 2X for 10s, 10X for 3s	
Frequency:	45 to 65 Hz	
Digital Input:	On level: 4.5-25V DC, Off level: within ±1VDC	
Demand Function:	Average power or average current	
Demand Period:	1 to 60 minutes	
Analog Output:	4-20mA DC	
Load:	<600Ω	
Measured Item:	Active power, reactive power, apparent power, phase voltage, phase current, power factor or frequency	
Pulse Output:	Pulse proportional to energy	
Measured Item:	Active energy, regenerative energy, reactive energy (Lead/Lag) or apparent energy	
Units:	0.1 to 5000.0 kWh/pulse; set in 100Wh increments	
Signal:	Open collector, 30V DC @ 200mA max.	
Alarm Output:	Alarms when measured demand exceeds setpoint	
Signal:	Open collector, 30V DC @ 200mA max.	
RS-485:	2-wire (half-duplex)	
Address:	01 to 99 (31 units max.)	
Baud Rate:	19200, 9600 & 2400 bps	
Protocol:	PC Link (with or without checksum), Modbus (RTU, ASCII)	
Ethernet:	IEEE802.3 compliant 10Base-T/100Base-TX	
IP Address:	Set from front panel. Only one address required for each PR300 cluster.	
Gateway:	RS-485 port on Ethernet meter communicates with RS-485 port on other PR300 meters	
Data Backup:	Last integrated value of active energy, regenerative energy, reactive energy & apparent energy are stored in non-volatile memory	
Withstand Voltage:	2500V AC between V & A inputs, power and ground; 2500V AC from V & A inputs, power and ground to digital input, pulse output, analog output, communications port and alarm output	
Operating Temp.:	0 to 50°C, 20-90% RH non-condensing	
Temperature Effect:	0.01%/°C	
Display:	Three 5-digit LEDs with unit & function annunciators	
Power:	100-240VAC ±10% (50/60Hz), 130-300V DC ±15%	
Power Consumption:	10VA, 5W max.	
Case:	Polycarbonate UL94-V0	
Connections:	Screw terminals (except Ethernet)	
Size:	ANSI: 4.33" x 4.33" x 5.05" (110 x 110 x 128 mm) DIN: 96 x 96 x 126 mm	