

NEW

Easy to Read Large Triple Display Multifunction Power Meter for Power & Energy Management

POWERGERT PR300 Debut!

YOKOGAWA ◆
LF 04L01L01-PRE



Large Triple Display

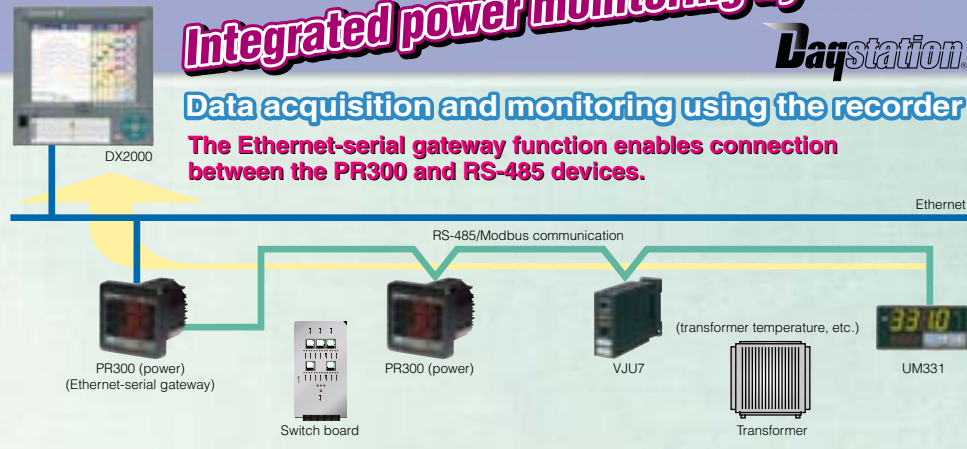
RS485 as Standard
Ethernet as Option

Multifunction

Integrated power monitoring by **Daystation**

Data acquisition and monitoring using the recorder

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



Universal Panel Cutout

DIN 96-square shape
ANSI 4-inch round form shape



Actual size (110mm-square for ANSI 4-inch round shape)

Monitoring to Save Energy

Introducing a New Multifunction Power Meter for Power & Energy Management

Various Meters Integrated in One PR300

Save on Cost

Save on Space

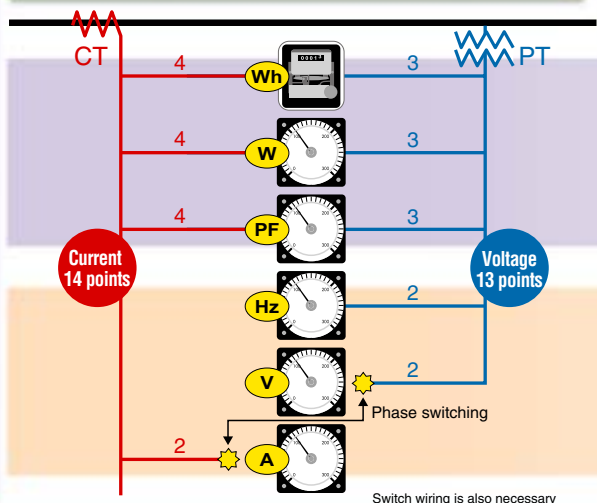
Save on Wiring

Before with analog meter (3p3w)
Ex) total **27** points wiring
(Current: 14 points
Voltage: 13 points)

Now with PR300,
only **7** points wiring
(Current: 4 points
Voltage: 3 points)

Now, you can reduce complex wiring with PR300!
This example shows 1/4 reduction PR300 can do it even if you need more measurement items.

The following measurement items can be selected for each display line



Simple wiring

Voltage 3 points

Flexible Display

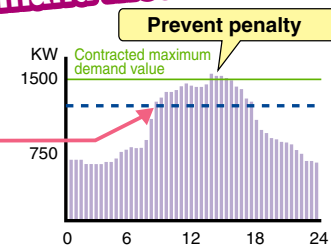
Active energy
Regenerative energy
LEAD Reactive energy
LAG Reactive energy
Apparent energy
Active power
Reactive power
Apparent power
Voltage (Phase switch indication)
Voltage-1
Voltage-2
Voltage-3
Current (Phase switch indication)
Current-1
Current-2
Current-3
Power factor
Frequency
Optional active energy
Demand value
Maximum demand value

NEW

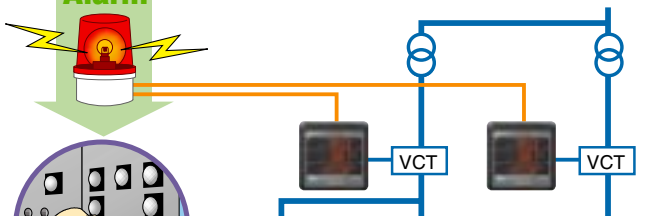
Demand measurement

Alarm is activated when demand value exceeds the preset alarm value

About to exceed contracted power



Alarm

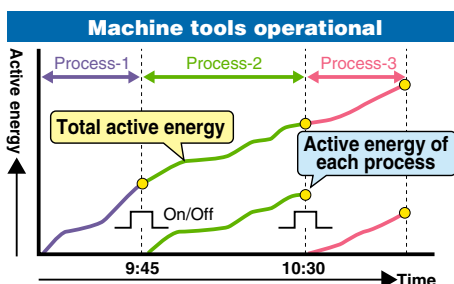


Operator controls the load

Arbitrary time integrated function

Active energy can be measured for the time period by external digital input
Active energy for each process can be measured

Check abnormality for each process



Various measurement items

For generator manufacturers
Regenerative energy, too!

Measurement Item	Display	
Active energy	□□□□ [kWh, MWh]	*1
Reactive energy	± □□□□ [kvarh, Mvarh]	*2
Apparent energy	□□□□ [kVAh, MVAh]	*1
Regenerative energy	- □□□□ [kWh, MWh]	*2
Optional active energy	□□□□ [Wh]	
Active/regenerative power (instantaneous, maximum, and minimum values)	□□□□ [W, kW, MW]	*2, *3
Reactive power (instantaneous, maximum, and minimum values)	□□□□ [var, kvar, Mvar]	*2, *3
Apparent power (instantaneous, maximum, and minimum values)	□□□□ [VA, kVA, MVA]	*1, *3
Voltage (instantaneous, maximum, and minimum values)	□□□□ [V, kV]	*1, *3
Current (instantaneous and maximum values)	□□□□ [A, kA]	*2, *4
Power factor (instantaneous, maximum, and minimum values)	LEAD: d □□□□ [COSφ] LAG: G □□□□ [COSφ]	*3
Frequency (instantaneous, maximum, and minimum values)	□□□ [Hz]	*3
Demand power	□□□□ [W, kW, MW] [DEMAND]	*4
Maximum demand power	□□□□ [W, kW, MW] [DEMAND]	*4
Demand current	□□□□ [A, kA] [DEMAND]	*4
Maximum demand current	□□□□ [A, kA] [DEMAND]	*4

*1: Without sign, but with a decimal point *2: With a sign and a decimal point (*+ is not indicated). Regenerative power (energy) always shows *- negative indication. The position of a decimal point differs depending on the primary rated power, VT ratio, and CT ratio.
*3: *MAX* lights up for the maximum value and *MIN* lights up for the minimum value. *4: *MAX* lights up for the maximum value.