

Compact Power Meter

TRUERMS



NEW



- All necessary Power Measurements : V, A, W, VA, Var, Wh, VAh, Varh, $\cos \theta$, In, Hz.
- Recording function with "integration time" selectable from 1 second to 1 hour.
- Internal non volatile Memory for non-stop recording up to 10 days.
- Accepts Removable Compact Flash Memory up to 128MB for non-stop recording up to 5 years.
- Supplied with interface software for downloading data to PC via USB.
- Four wiring configurations : 3 Phase 4 Wires, 3 Phase 3 Wires, single Phase 3 Wire and 2 Wires.
- Wide screen with back light Multi-Display system for simultaneous measurements.
- Double power supply system : from AC Line and from Alkaline battery with approx. 7 hours of battery life.
- Demand function for Energy-Saving measurements.
- Designed to Safety Standard IEC 61010-1 CAT. III 600V.

POWER METER MODEL 6300

KYORITSU ELECTRICAL INSTRUMENTS WORKS,LTD.

Everything Required for Power Consumption

12 kinds of power measurements

Voltage (RMS), Current (RMS), active power, apparent power, reactive power, active energy, apparent energy, reactive energy, power factor (Cos θ), frequency, demand measurement, current flowing on the neutral line (Only on 3 phase 4 wire measurement)

Regenerative electric power

Detection of consumption power and regenerative power. Regenerative electric power: This is the electric power supplied to electric power company.

The electric power and the power factor for each phase can be confirmed

Monitoring of operation for each phase.

Recording and 1 hour

1/2/5/10/15/20

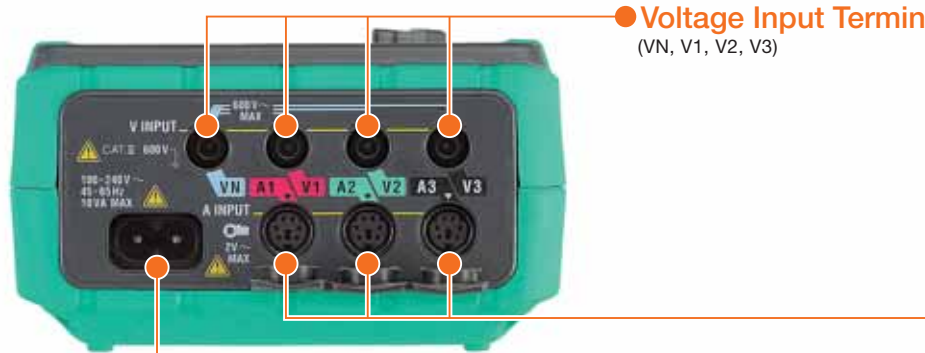


Demand measurement

Buzzer sounding and backlight blinking give warning not to exceed the pre-setting demand target value.

Double power supply system AC line and Alkaline size AA battery LR6 : 6 pcs.

Continuous 7 hours can be measured by using batteries



Power connector

Display (LCD)

Display 3 different data simultaneously on large screen.

4 types wiring system

- 1 phase - 2 wire (1ch), (2ch), (3ch)
- 1 phase - 3 wire
- 3 phase - 3 wire
- 3 phase - 4 wire

Function Switch

Easy operation with big range switch.

LED status indicator

Lighting : During integration / demand measurement.
Blinking : During integration / demand stand-by mode.

Start Stop Key

Back Light Switch

Cursor Key

Saving Key

Instantaneous value can be saved.



Consumption and Energy-Saving Analysis!!

Power can be measured

Generative electric power
Electric power which is generated by private power generator, and is

Measurement interval can be set between 1 second and 30 minutes

1/30 second/seconds 1/2/5/10/15/20/30 minute/minutes 1 hour

als



Clamp Sensor (option)
MODEL 8125

- Current Input Terminals (A1, A2, A3)

Direct communication with PC by USB connection

- USB Connector

The interface for compact flash card (CF card) is equipped.

An external memory up to 128MB or less can be used.

- CF Card Slot
- CF Card Eject Button

CF card (operation check has completed)

| Supplier | Model | Capacity |
|--------------------------------|-------------|----------|
| SanDisk Corporation | SDCFB-32 | 32MB |
| | SDCFB-364 | 64MB |
| | SDCFB-128 | 128MB |
| Renesas Technology Corporation | HB28B128C8C | 128MB |
| Adtec Co., Ltd. | AD-CFG32 | 32MB |
| BUFFALO Inc. | RCF-X32MY | 32MB |
| | RCF-X64MY | 64MB |
| | RCF-X128MY | 128MB |

Company name and model name are the trademark or the registered trademark.

Max number of data (reference)

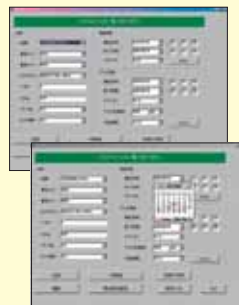
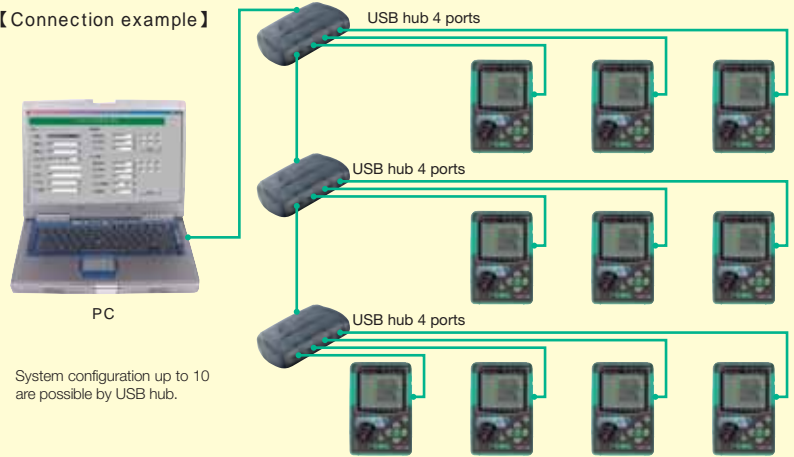
| Data saved in: | CF card | | | | Internal memory |
|---|--------------|----------------|--------------|------------|-----------------|
| Capacity | 32MB | 64MB | 128MB | 128kB | |
| Instantaneous measurement | 100,000 data | 200,000 data | 400,000 data | 1,000 data | |
| Integration / demand measurement interval | 1 sec. | 7 hours | 14 hours | 28 hours | 4 minutes |
| | 1 min. | 18 days | 36 days | 72 days | 4 hours |
| | 30 min. | 1 year or more | | | 5 days |

In case that no file exist in the CF card.

User-friendly "KEW POWER PLUS" is supplied

Multiple connections by using commercially available USB hub

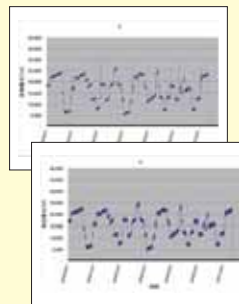
【Connection example】



Simple setting for all functions by clicking.

Easy setting for date, month and year with calendar.

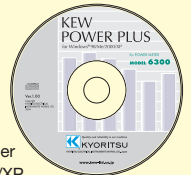
The recorded data can be downloaded with the CSV file, and the data analysis processing including waveform can be done by EXCEL.



System requirements

PC with CPU : Pentium II 200MHz or higher
Operating system : Windows 98/Me/2000/XP
Memory : 32MB or more
Display : Resolution 800 x 600 dots, 65536 colors or more
Hard-disk space required : 10MB or more

*Windows® is a registered trademark of Microsoft in the United States.
*Pentium is a registered trademark of Intel in the United States.



What "Demand Function" is

Demand function is widely used in Japan among different fields such as construction company, factory, building maintenance company, hospital, hotel, etc., who need to consume the large electrical power.

For example, 300kW, 500kW or 600kW on an annual basis. Therefore, they naturally need to monitor the total consumption of the power in order to save their power as low as possible.

Now, the demand function being provided in our Power Meter MODEL 6300 is quite useful and effective as simplified monitoring system.

●MODEL 6300 BASIC SPECIFICATION

| | |
|---|--|
| Measurements and parameters | Voltage, Current, Active power, Apparent power, Reactive power, Active energy, Apparent energy, Reactive energy, Power factor (cos ϕ), Neutral current, Frequency meter. |
| Wiring connections | 1P 2W, 1P 3W, 3P 3W, 3P 4W |
| Voltage ranges <i>RMS</i> | 150.0 / 300.0 / 600.0V AC |
| Voltage accuracy | $\pm 0.3\% \text{rdg} \pm 0.2\% \text{fs}$ (45~65Hz) |
| Current ranges <i>RMS</i> | 50.00/100.0/200.0/500.0 A AC (with Clamp sensor MODEL 8125) |
| Current accuracy | $\pm 0.3\% \text{rdg} \pm 0.2\% \text{fs}$ + Clamp sensor accuracy (at 45~65Hz) |
| Crest factor | Voltage : up to 2.5 Current : up to 3.0 (with 90% fs or less) |
| Frequency meter range | 40~70Hz |
| Frequency meter accuracy | $\pm 3 \text{dgt}$ |
| Active Power accuracy | $\pm 0.5\% \text{rdg} \pm 0.2\% \text{fs}$ + Clamp sensor accuracy (at 45~65 Hz) |
| Accuracy precondition | PF=1, Sine wave, 23°C \pm 5°C |
| Effect of power factor | Active power : $\pm 1.0\% \text{rdg} \cos \phi = \pm 0.5$ (PF=1) |
| Effective input range | 10~110% of Rating range of V and A |
| Display range | 1~120% of Rating range |
| Integration time for recording function | 1/2/5/10/15/20/30 Seconds 1/2/5/10/15/20/30/60 Minutes |
| Display update period | 1 second |
| Operating temperature and humidity ranges | 0~+50°C, less than 85% RH (without condensation) |
| Storage temperature and humidity ranges | -20~+60°C, less than 85% RH (without condensation) |
| Over load protection | Voltage : 720V AC rms Current : 600A AC rms (with Clamp sensor MODEL 8125) |
| PC communication Interface | USB |
| PC card Interface | Compact flash card (Standard type 32/64/128 MB) not included |
| Safety standard | IEC61010-1 CAT.Ⅲ 600V |
| Power supply | AC Line : 100~240V \pm 10% (50/60Hz) DC Battery 9V : LR6 \times 6(Battery life approx. 7h) |
| Power consumption | 10VA (MAX) |
| Dimension | 175(L) \times 120(W) \times 65(D) mm |
| Weight | Approx. 800g (including batteries) |
| Accessories | Test lead (4pcs), PC Software, USB Cable, Mains cord, Quick manual, Carrying bag, Batteries. |
| Optional accessories | Clamp sensor MODEL 8125 (3pcs). Wide range of clamp sensor up to 1000A on request. Compact flash card. |

PC Output only

●CLAMP SENSOR (option) MODEL 8125



Ø40

500A

| | |
|---|--|
| Measurement range | AC 0~500A |
| Output voltage | AC 0~500mV (1mV/A) |
| Accuracy | $\pm 0.5\% \text{rdg} \pm 0.1 \text{mV}$ (45~65Hz) |
| Phase shift | Less than $\pm 1^\circ$ |
| Frequency responses | 40Hz~1kHz |
| Output impedance | Approx. 2 |
| Conductor size | Ø40mm max. |
| Safety standard | IEC 61010-2-032 CAT.Ⅲ 600V Pollution degree 2 |
| Operating temperature and humidity ranges | 0~+50°C, less than 85% RH (without condensation) |
| Storage temperature and humidity ranges | -20~+60°C, less than 85% RH (without condensation) |
| Dimension | 128(L) \times 81(W) \times 36(D) mm |
| Weight | Approx. .260g |
| Cable length | Approx. 3m |
| Output connector | MINI DIN 6PIN |
| Accessories | Cable Marker Instruction manual |

MODEL 6300-01

Consists of : MODEL 6300 \times 1
 MODEL 8125 \times 3
 Carrying bag \times 1
 Test leads set (Black, Green, Blue, Red) \times 1
 PC Software \times 1 USB cable \times 1 Mains cord \times 1
 Quick manual \times 1 Batteries \times 6



! Safety Warnings : Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and completely for correct use. Failure to follow the safety rules can cause fire, trouble, electrical shock, etc. Therefore, make sure to operate the instrument on a correct power supply and voltage rating marked on each instrument.

■ For inquires or orders :



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