



**Compact Power Meter** 



- All necessary Power Measurements : V, A, W, VA, Var, Wh, VAh, Varh, cos θ, 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.
- Oemand function for Energy-Saving measurements.
- Designed to Safety Standard IEC 61010-1 CAT.II 600V.



KYORITSU ELECTRICAL INSTRUMENTS WORKS, LTD.

# **Everything Required for Power Consu**

each phase can be confirmed

Monitoring of operation for each phase.

Start Stop Key

## 12 kinds of power measurements

Voltage (RMS), Current (RMS), active power, apparent power, reactive power, active energy, apparent energy, reactive energy, power factor (Cos  $\theta$ ), frequency, demand measurement, current flowing on the neutral line (Only on3 phase 4 wire measurement)

## Regenerative electric p

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

Record

1/2/5/10/15/20

Voltage Input Termin

(VN, V1, V2, V3)



### **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

#### Display (LCD)

## Display 3 different data simulationously 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.



The electric power and the power factor for

#### Power connector



Back Light Switch
Cursor Key

Saving Key Instantaneous value can be saved.

## mption and Energy-Saving Analysis!!

### ower can be measured

nerative electric power ectric power which is generated by private power generator, and is

## ing internal can be set between 1 second our

)/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			

#### Max number of data (reference)

Data saved in:		CF card			Internal memory
Capacity		32MB	64MB	128MB	128kB
Instantaneous measurement		100,000	200,000	400,000	1,000
		data	data	data	data
Integration / demand	1 sec.	7 hours	14 hours	28 hours	4 minutes
measurement interval	1 min.	18 days	36 days	72 days	4 hours
	30 min.	1	year or mo	ore	5 days
In case that no file exist in the CF card.					

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

#### User-friendly "KEW POWER PLUS" is supplied

#### Multiple connections by using commercially available USB hub





#### System requirements PC with CPU : Pentium II 200MHz or higher Operating system : Windows 98/Me/2000/XP Memory : 32MB or more Display : Resolution 800 × 600 dots, 65536 colors or more Hard-disk space required : 10MB or more 'Windowse is a registered trademark of Microsoft in the United States.

POWER PLUS

\*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.

In case that no file exist in the CF car

#### MODEL 6300 BASIC SPECIFICATION

Measurements and	Voltage, Current, Active power, Apparent power, Reactive
parameters	power, Active energy, Apparent energy, Reactive energy,
	Power factor (cos ), Neutral current, Frequency meter.
Wiring connections	1P 2W, 1P 3W, 3P 3W, 3P 4W
Voltage ranges RMS	150.0 / 300.0 / 600.0V AC
Voltage accuracy	±0.3%rdg ±0.2%fs (45~65Hz)
Current ranges RMS	50.00/100.0/200.0/500.0 A AC (with Clamp sensor MODEL 8125)
Current accuracy	±0.3%rdg ±0.2% 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	±3dgt
Active Power accuracy	$\pm 0.5\%$ rdg $\pm 0.2\%$ fs + Clamp sensor accuracy (at 45~65 Hz)
Accuracy precondition	PF=1, Sine wave, 23°C±5°C
Effect of power factor	Active power : $\pm 1.0\%$ rdg cos = $\pm 0.5$ (PF=1)
Effective input range	10~110% of Rating range of V and A
Display range	1~120% of Rating range
Integration time for	1/2/5/10/15/20/30 Seconds 1/2/5/10/15/20/30/60 Minutes
recording function	
Display update period	1 second
Operating temperature	0~+50°C, less than 85% RH (without condensation)
and humidity ranges	
Storage temperature	-20~+60°C, less than 85% RH (without condensation)
and humidity ranges	
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±10% (50/60Hz)
	DC Battery 9V : LR6x6(Battery life approx. 7h)
Power consumption	10VA (MAX)
Dimension	175(L)×120(W)×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.



CLAMP SENSOR (option) MODEL 8125

Measurement range	AC 0~500A
Output voltage	AC 0~500mV (1mV/A)
Accuracy	±0.5%rdg±0.1mV (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	0~+50°C,
and humidity ranges	less than 85% RH (without condensation)
Storage temperature	-20~+60°C,
and humidity ranges	less than 85% RH (without condensation)
Dimension	128(L) <b>x</b> 81(W) <b>x</b> 36(D) mm
Weight	Approx .260g
Cable length	Approx. 3m
Output connector	MINI DIN 6PIN
Accessories	Cable Marker Instruction manual

PC Output only

## **MODEL 6300-01**

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





Please read the "Safety Warnings" in the instruction manual supplied with the instrument thoroughly and Safety Warnings : 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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