

CA-2000 Hand-Held Power Analyzer With Flexible Probes or Current Clamps



The **CA-2000** is a hand-held portable analyzer designed for use by field personnel assigned to maintain and check the performance of equipment installed in electric power systems. It can be used with conventional current clamps or with Flexible Rogowski-type current sensors with ranges from 1 Ampere e to 20,000 Amperes. It measures and records up to 28 electric parameters in an internal non-volatile memory. Recording periods can be pre-programmed by the user. It is designed for use on single phase installations, unbalanced three-phase four-wire ("WYE") installations and on balanced three-phase three-wire ("DELTA") installations.



The **CA-2000** analyzer is packaged in a rugged enclosure for use in laboratory or field environment in conjunction with a current clamp or a flexible current sensor.

Three electrical parameters are displayed on three four-digit rows of an LCD display located on the front panel.

Eight display screens can be selected:

Voltage, Current, Frequency

Active Power (WATT), Reactive Power (VAR), Power Factor

Apparent Power (VA)

Active Energy Consumption (WATT-HOUR)

Inductive Reactive Energy (VAR-HOUR for Inductive Load)

Capacitive Reactive Energy (VAR-HOUR for Capacitive Load)

% THD of Voltage, % THD of Current

Power Demand of a pre-selected period

The following additional information can also be displayed:

Enter a desired Power Factor value, and calculate the capacitor bank required.

Enter a capacitor bank value and calculate the resultant Power Factor.

Display the phase direction

Measuring leakage currents

Portable Power Analyzer

IEC – CAT III 600 Volts Rating

CA-2000

0.5% CLASS

General Specifications

VOLTAGE RANGE: 70 to 550 Volts AC
INPUT CURRENT RANGE: 0-2 Volts RMS from current clamp
FREQUENCY RANGE: 45 to 65 Hz
VOLTAGE ACCURACY CLASS: 0.5% + 2 Digits
CURRENT ACCURACY CLASS: 0.5% + 2 Digits
WATT ACCURACY CLASS: 1% + 2 Digits
AVAILABLE CURRENT SENSORS:
FLEXIBLE CURRENT PROBES: Up to 20,000 Amperes AC
CURRENT CLAMPS: Up to 7,500 AMPERES AC
LCD DISPLAY: 3-Lines 4-Digits + Icons
KEYPAD: 7-Functions and 1 ON/OFF key
CASE: Self-Extinguishing Thermoplastic
DIMENSIONS: 6.8" X 4" X 2" (170X100X50 mm)
WEIGHT: 0.67 Lb. (300 Grams)
TEMPERATURE RANGE: -10 to + 50 Deg. C
 (14 to 122 Deg. F)



CA-2000 KIT



CA-2000 with FLEXIBLE PROBE and a SOFT CARRYING CASE

Applications & Features

DESIGNED FOR INDUSTRIAL POWER ANALYSIS

MEASURES, CALCULATES and DISPLAYS ELECTRICAL PARAMETERS IN 3-PHASE and SINGLE-PHASE SYSTEMS.

CAN BE USED WITH CURRENT CLAMPS OR WITH FLEXIBLE ROGOWSKY-TYPE CURRENT SENSORS

LIST OF PARAMETERS	
V	Voltage
I	Current
KW	Active Power
KVA	Apparent Power
PF	Power Factor - Includes Harmonics
COS	Cosine (For Line Frequency)
%THD-V	Total Harmonic Distortion - Voltage
%THD-A	
HZ	Frequency
KWHR	Active Energy WATT-Hours
KVAR-L	Reactive Energy (Inductive VAR-Hrs)
KVAR-C	Reactive Energy (Capacitive VAR-Hrs)
PD	Power Demand
Max & Min	of parameters with date and time
C	Capacitance value needed
PH-D	Phase Direction
Settings:	Alarm for THD Voltage threshold
	Alarm for THD Current threshold
	Recording Period

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

CA-2000 KITS SELECTION CHART

PART NUMBER	DESCRIPTION	CURRENT SENSOR	CURRENT RANGE
CA-2000	ANALYZER	NONE	
CA-2000-CA-18-C	ANALYZER & 18" FLEX SENSOR & CASE	CA-20K-18	200/2,000/20,000 AAC
CA-2000-CA-30-C	ANALYZER & 30" FLEX SENSOR & CASE	CA-20K-30	200/2,000/20,000 AAC
CA-2000-CA-48-C	ANALYZER & 48" FLEX SENSOR & CASE	CA-20K-48	200/2,000/20,000 AAC
CA-2000-CP5-C	ANALYZER & CLAMP & CASE	CP-5	5 AAC
CA-2000-CP100-C	ANALYZER & CLAMP & CASE	CP-100	100 AAC
CA-2000-CP500-C	ANALYZER & CLAMP & CASE	CP-500	500 AAC
CA-2000-CP1000-C	ANALYZER & CLAMP & CASE	CP-1000	1000AAC
CA-2000-CP2000-C	ANALYZER & CLAMP & CASE	CP-2000	200/2,000AAC
CA-2000-CF-C	ANALYZER & CLAMP & CASE	Leakage Clamp	0.010 to 5 AAC