

# 3193 POWER HiTESTER



## Wide spectrum power meter for comprehensive device assessment

A multi-function power meter for use with single phase power lines to 3-phase, 4-wire circuits. Accommodating up to 6 units, the unit is not only capable of measuring up to 6 single phase systems, but can simultaneously measure the input and output of a 3-phase inverter and provide effective power measurements. Additionally, it supports harmonic analysis and flicker measurement (optional), features which are essential for overall device assessment.

**RMS**

**GP-IB**

**RS-232C**

### SPECIFICATIONS

- Measurement lines** : Single-phase/two-wires to three-phase/four-wires  
(Through the use of various input units)
- Measurement items** : (When using 9600, 9601, 9602, optional)  
Voltage, current, voltage/current peak, effective/reactive/apparent power, power factor, phase, frequency, current/power integration, load rate, efficiency  
(When using 9603, optional)  
Voltage, torque, RPM, frequency, motor output  
(When using 9605, optional)  
Harmonic, waveform, voltage fluctuation / flicker measurement function
- Measurement ranges** : **Voltage:** 6.0000 V to 1.0000 kV (depends on use of the input unit)  
**Current:** 200.00 mA to 500.00 A (depends on use of the input unit)  
**Power:** Depends on combination of voltage and current ranges
- Integration range** : 0 to ±999999 TAh/ TWh, (integration time up to 10000 hours)
- Basic accuracy** : ±0.1% rdg. ±0.1% f.s. (voltage, current, power, at 45 to 66Hz)  
used with 9600 to 9602 Input unit *Note: When used together with the 9270 to 9272, and 9277 to 9279, resulting accuracy is the sum of that indicated above and the accuracy of these clamp sensors.*
- Frequency characteristics** : used with 9600: DC, 0.5 Hz to 1 MHz  
used with 9601: 5 Hz to 100 kHz  
used with 9602: DC, 0.5 Hz to 200 kHz (depends on the clamp accuracy)
- Signal output** : **Analog level:** Voltage, current, active power, 5 V DC f.s.  
**Waveform monitor:** Voltage, current, 1 V rms f.s.  
**D/A output:** Outputs 8 arbitrarily selected items, DC±5 V f.s.
- Other functions** : 6.4 inch TFT color LCD, RMS/MEAN rectification, FDD, GP-IB/RS-232C interface, scaling, averaging
- Power supply** : 100/120/200/230 V AC (switched automatically), 50/60 Hz
- Dimensions, mass** : 430W × 150H × 370D mm, 15 kg (with all options)
- Accessories** : Power cord(1), Connector(1)

**OPTION** (The 3193 cannot be used alone. Measurement requires one or more input units.)

*\*Note: Non-CE mark product*

- 9600 AC/DC DIRECT INPUT UNIT
- 9601 AC DIRECT INPUT UNIT
- \*9602 AC/DC CLAMP INPUT UNIT
- 9603 EXTERNAL SIGNAL INPUT UNIT
- 9604 PRINTER UNIT
- 9605 HARMONIC / FLICKER MEASUREMENTS UNIT

*Note: 9600 to 9605 : that can be installed at the factory only*

\*9270 series CLAMP ON SENSOR

\*9290 CLAMP ON ADAPTER