

## 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

<b>Measurement lines</b>	: Single-phase/two-wires to three-phase/four-wires (Through the use of various input units)
<b>Measurement items</b>	: (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
<b>Measurement ranges</b>	: <b>Voltage:</b> 6.0000 V to 1.0000 kV (depends on use of the input unit) <b>Current:</b> 200.00 mA to 500.00 A (depends on use of the input unit) <b>Power:</b> Depends on combination of voltage and current ranges
<b>Integration range</b>	: 0 to $\pm 999999$ TAh/ TWh, (integration time up to 10000 hours)
<b>Basic accuracy</b> used with 9600 to 9602 Input unit	: $\pm 0.1\%$ rdg. $\pm 0.1\%$ f.s. (voltage, current, power, at 45 to 66Hz) <i>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.</i>
<b>Frequency characteristics</b>	: 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)
<b>Signal output</b>	: <b>Analog level:</b> Voltage, current, active power, 5 V DC f.s. <b>Waveform monitor:</b> Voltage, current, 1 V rms f.s. <b>D/A output:</b> Outputs 8 arbitrarily selected items, DC $\pm 5$ V f.s.
<b>Other functions</b>	: 6.4 inch TFT color LCD, RMS/MEAN rectification, FDD, GP-IB/RS-232C interface, scaling, averaging
<b>Power supply</b>	: 100/120/200/230 V AC (switched automatically), 50/60 Hz
<b>Dimensions, mass</b>	: 430W $\times$ 150H $\times$ 370D mm, 15 kg (with all options)
<b>Accessories</b>	: 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