

NEW 1000 A AC True RMS **Power Clamp-On Meter**

HHM98P



- **Measurement of Active** Power (kW), Reactive Power (kVAR), Apparent Power (kVA), Power Factor (PF)
- Harmonic Measurement: Up to 25 PF for 3 Ø 4 W. 3 Ø 3 W, 1 Ø 2 W, 1 Ø 3 W
- ✓ Easy-to-Read Triple Display: kW, V, A
- Measurements Recorded for Each Wire: V, A, kW, kVA, kVAR, PF, Hz, Total 24 Parameters
- AC Current Up to 1000 A, AC Voltage Up to 600 V
- ✓ Inrush (100 ms), Hold, and Peak Functions
- ✓ Max/Min/Avg Functions
- ✓ Balanced Load Function
- Dimensions of Conductor: 46.5 Ø mm
- Auto Power-Off after 10 Minutes of Non-Use

The HHM98P multifunction clamp-on meter provides high accuracy and reliability in a low-cost, portable package. The built-in AC clamp makes this meter ideal for troubleshooting electric resistance heaters and other plant electrical systems. In addition, the HHM98P effectively measures current from 3 to 1000 A.



Specifications

Display: 4-digit LCD with a maximum

reading of 9999 Overrange:

(OL) or (-OL) is displayed **Low-Battery Indicator:** The "+=" is displayed

Measurement Rate: 1/s, nominal

Operating Temperature:

0 to 40°C (32 to 104°F) @ <70% RH Storage Temperature: -20 to 60°C (-4 to 140°F) 0 to 80% RH with battery

removed from meter

Accuracy: 23 ±5°C @ 75% RH **Temperature Coefficient:** 10% of applicable accuracy per °C

(5% per °F) outside the range of 18 to 28°C (65 to 82°F)

Altitude: Up to 2000 m

Dimensions of Conductor: 46.5 Ø mm Power: Standard 9 V battery (included).

NEDA 1604, JIS 006P, IEC 6F22

Battery Life:

50 hr typical with carbon-zinc

Dimensions:

250 H x 100 W x 46 mm D

(9.8 x 3.9 x 1.8")

Weight:

Approx 375 g (0.8 lb) with battery

AC Current (True RMS)

Range: 0 to 1000 A Resolution: 0.1/1 A

Accuracy:

 $\pm (1.5\% \text{ rdg} + 10 \text{ digits}) \text{ on } 50 \text{ to } 60 \text{ Hz};$ \pm (6% rdg + 10 digits) on 45 to 400 Hz

AC Volatge (True RMS)

Range: 0 to 600 V Resolution: 0.1 V Accuracy:

 \pm (1% rdg + 5 digits) on 20 to 100 Hz; \pm (6% rdg + 5 digits) on 100 to 400 Hz

Input Impedance: 1 M Ω **Power Measurement Accuracy:**

Single-phase or balance 3 phase load with sine wave input; power factor = 1, 50/60 Hz

Effective Measurement Range:

Current: 3 to 1000 A Voltage: 80 to 600 V Active Power (kW): Range: 0 to 600 kW Resolution: 0.01/0.1 kW

Accuracy: $\pm (3.0\% \text{ rdg} + 10 \text{ digits})$ reactive power, apparent power and power factor values obtained by calculation from active power,

current and voltage measurements **Measurement Accuracy:**

±2 digits with respect to calculation from each measured value

Apparent Power (kVA): Range: 0 to 60 kVA Resolution: 0.01/0.1 kVA Reactive Power (kVAR):

Range: 0 to 60 kVAR Resolution: 0.01/0.1 kVAR



Power Factor (PF): Range: 0 to 1 Resolution: 0.001

Frequency:

Range: 20 to 400 Hz Resolution: 0.1 Hz

Accuracy: $\pm (0.5\% \text{ rdg} + 5 \text{ digits})$

Sensitivity:

Voltage: 5 Vrms

Current: 5 Arms on 20 to 100 Hz; 10 Arms on 100 to 400 Hz **Harmonic Measurement**

(Effective in the Voltage and Current):

Measurement Items: Level of each order, percentage of each order and total harmonic distortion

(THD-F and THD-R) **Measurement Range:**

Fundamental frequency, 45 to 65 Hz

Window Width: 1 cycle

(45 to 65 Hz)

Date Points: 128 points Window Type: Rectangular Orders Analyzed: Up to 25th

Order Accuracy:

 $1 \pm (3.0\% \text{ rdg} + 10 \text{ digits})$ 2 to 6 \pm (3.5% rdg + 10 digits) 7 to 8 \pm (4.5% rdg + 10 digits) 9 to 10 \pm (5.0% rdg + 10 digits) 11 to 15 \pm (7.0% rdg + 10 digits) 16 to 20 \pm (10% rdg + 10 digits) 21 to 25 not specified

Harmonic Percentage: ±2 digits with respect to calculation from each

measured value

Total Harmonic Distortion Ratio: ±2 digits with respect to calculation

from each measured value



AVAILABLE FOR FAST DELIVERY!

| To Order (Specify Model Number) | | |
|---------------------------------|-------|--|
| Model No. | Price | Description |
| HHM98P | \$199 | Clamp-on power meter |
| PE-1012 | 100 | Reference Book: Power Generation and Control |

Comes with a pair of test leads, 9 V battery and complete operator's manual.

Ordering Example: HHM98P, clamp-on power meter, \$199.

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