

THREE PHASE REFERENCE STANDARD METER



INTRODUCTION:

The HC3100H is the latest version of portable three phase working standard, with TFT colour screen operation. The HC3100H is ideal for on- site testing with either direct current connection or current clamp connection. A USB port allows extended memory and ease of data transfer.

MEASUREMENT VALUES:

Display of:

Voltage, Current, Phase angles, Active Power, Reactive Power, Frequency, Power Factor, Vector diagram, THD, Harmonics, Ratio test, % Error

The equipment has Class 0.05/0.02/0.01 accuracy and can be used in lab or for site testing.

Circuit type:	3 phase 4 wire, 3 phase 3 wire, 1 phase 2 wire (Others on request).
Phase angle:	0° to 360°
Power Supply:	80V to 280V
Power Consumption:	max 20 VA
Scanning Head:	Optical sensor with suitable cable and connector
Frequency Range:	45 - 70 Hz
Connections:	Direct connections (current up to 100A) to the device under test
Indirect connections:	Up to 3000A are made via CT's (probes). (Others on request)
Environmental Conditions:	Operation Temperature: -10°C to + 50°C
Specified Temperature:	+10°C + 40°C
Humidity:	up to 95%
Housing:	A rugged water resistant housing with protective cover and Cable bag.
Influence of supply:	0.005% at 10% variation on measuring result:
Protection:	IP40

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<p>Direct Measurement</p> <p><u>Current Range: 1mA....12A</u> Inter Range: As required Measurement Error: $E \leq \pm 0.02\%$ 4mA- 12A of the measured value $E \leq \pm 0.02\%$ 1mA-4mA of the measurement range final value</p> <p><u>Current Range: 10mA.....120A</u> Internal Range: As required Measurement Error: $E \leq \pm 0.02\%$ 40mA- 120A of the measured value $E \leq \pm 0.02\%$ 10mA-40mA of the measurement range final value</p> <p>Electronically compensated Clip-on CT's Current Range: 50mA- 100A Internal Range: As required Measurement Error: $E \leq \pm 0.02\%$ 0.5A- 100A $E \leq \pm 1.0\%$ 50mA-499ma</p> <p>Clip-on CT's up to 1000A Measurement Error: $E \leq 0.5\%$ 2A- 1000A of the measured value + error of the clip-on CT's</p> <p>Current Transformers 30/300/3000A Measurement error: $E \leq 0.5\%$ 10- 100% of range of the measured value + error of the clip-on CT's</p> <p>Voltage Measurement(U) Volatge Range: 5V – 520V Internal Ranges: As required. Measurement error: $E \leq \pm 0.02\%$ 30V- 520V of range of the measured value $E \leq \pm 0.02\%$ 5V- 30V of range of the measured value</p> <p>DC Measurement DC Current and DC Voltage with measurement error $E \leq \pm 1.0\%$ for the range of 0- ± 20mA (current) & 0- ± 10V (Voltage) respectively.</p>
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<p>Burden Measurement</p> <p>Voltage Range: 0V – 5V Measurement error: $E \leq \pm 0.5\%$ 0.4V- 5V of measured value $E \leq \pm 1.0\%$ 0V- 0.4V of the measurement range value</p> <p>Power Measurement (P,Q,S) <u>Power measurement / ph on range 30-520V</u> <u>Current Range: 1mA.....12A</u> <u>Power (P,Q,S)</u> Measurement Error: $E \leq \pm 0.02\%$ 4mA- 12A of the measured value $E \leq \pm 0.02\%$ 1mA-4ma of the measurement range final value</p> <p>Current Range 10mA....120A Measurement Error: $E \leq \pm 0.02\%$ 40mA- 120A of measured value. $E \leq \pm 0.02\%$ 10mA- 40mA of measured value.</p> <p>Electronically compensated Clip-on CT's Range- 50mA-100A Measurement Error: $E \leq 0.2\%$ 500mA- 100A of the measured value $E \leq 0.5\%$ 50mA- 500mA of the measured value. Range up to 1000A Measurement Error: $E \leq 0.2\%$ 50A- 1000A of the measured value $E \leq \pm 0.5\%$ 2A- 50A of the measured value.</p> <p>Energy Measurement(W) Similar to power measurement</p>
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For further queries:
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