



Power Meter HM8115-2

- Power measurement up to 8 kW
- Simultaneous reading of voltage, current and power
- Selectable reading of power(W), reactive power(Var) and apparent power(VA)
- Measurement of the power factor PF
- Auto ranging, simplified measurement
- Controllable using RS232 interface

The **HM8115-2** is an easy to handle power meter with a good accuracy for laboratory application or monitoring. It offers all necessary features at reasonable costs. Fully isolated auto ranging inputs and simultaneously reading of voltage, current and power guarantee a simplified measurement. The showing

of all parameters at a glance makes the **HM8115-2** very helpful for monitoring. The **RS232** interface makes it possible to read data from the **HM8115-2** or set the parameters of the measuring instrument. For this case the **HM8115-2** is exceptionally well-suited for automated testing systems.

Specifications Ref. Temperature: +18°C to +28°C

Voltage (True RMS (AC+DC))

Voltage ranges: 50V 150V 500V
Resolution: 0,1V 1V 1V
Accuracy: ±(0,4% + 5 digits) at 20Hz -1kHz
 ±(0,6% + 5 digits) at DC
Input impedance: 1 MΩ || 100pF
Crest factor: max. 3,5 at full scale
Input protection: 500Vpeak

Current (True RMS (AC+DC))

Current ranges: 160mA 1,6A 16A
Resolution: 1mA 1mA 10mA
Accuracy: ±(0,4% + 5 digits) at 20Hz -1kHz
 ±(0,6% + 5 digits) at DC
Crest factor: max. 4 at full scale
Input protection: fuse 16 A super-quick reacting (FF), 6,3x32mm

Active power

Ranges: 8W, 24W, 80W, 240W, 800W, 2400W, 8000W
Resolution: 1mW, 10mW, 10mW, 100mW, 100mW, 1W, 1W
Accuracy: ±(0,5% + 10 digits) at 20 Hz - 1kHz
 ±(0,5% + 10 digits) at DC
Display: 4 digit, 7-segment LED

Reactive power

Ranges: 8Var, 24Var, 80Var, 240 /800Var, 2400 /8000Var
Resolution: 1mVar, 10mVar, 10mVar, 100mVar, 1Var
Accuracy: ±(2,5 % + 10 digits + 0,02 x P) at 20Hz - 400Hz, P = active power

Display: 4 digit, 7-segment LED

Apparent power

Ranges: 8VA, 24VA, 80 VA, 240 /800VA, 2400 /8000VA
Resolution: 1mVA, 10mVA, 10mVA, 100mVA, 1VA
Accuracy: ±(0,8 % + 5 digits) at 20Hz - 1kHz
Display: 4 digit, 7-segment LED

Power factor

Reading: 0,00 to +1,00
Accuracy (50-60 Hz): ±(2% + 3 digits) Voltage and current (sinusoidal) and > 1/10 full scale

Monitor (analogue output)

Output: BNC connector (electrically insulated against measured input and RS232 interface)
Output level: 1Vrms at full scale (2400/8000 digits)
Reference potential: protective earth
Accuracy: typ. 5 %
Output impedance: about 10kΩ
Bandwidth: DC to 1kHz
Protection: ± 30V

Interface

Type: RS-232 (3 wires)
Protocol: Xon / Xoff
Transmission rates: 1200 / 9600 Baud
Functions: control / data request
Output: D-Sub (electrically insulated against measured input and monitor output)

Operation / Display

Operations: voltage, current, power, power factor
Range selection: automatic / manual

Overranging indicator: optical, acoustical

Voltage display: 3 digit, 7-segment LED
Current display: 4 digit, 7-segment LED

Combined display for:

Power, reactive power and apparent power: 4 digit, 7-segment LED
Power factor: 3 digit, 7-segment LED

General specifications

Power supply: 115/230 V ± 10%, 50/60 Hz protection class I, EN 61010 (IEC 1010)
Power consumption: approx. 15W at 50Hz
Operating temperature: 0°....+40°C
Operating humidity: < 80%
Dimensions: B 285, H 75, T 365 mm
Weight: approx. 4kg

subject to change without notice

Accessories supplied:

Power Meter HM8115-2, power cord, operating manual, warranty card

Optional Accessories:

HZ33 / HZ34 / HZ42
 Cable BNC / BNC,
 19" rack mount kit, 2HU