

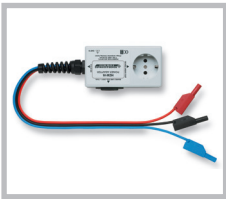
## Power Consumption Meter 8 kW HM8115-2



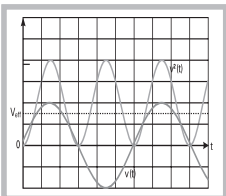
HM8115-2



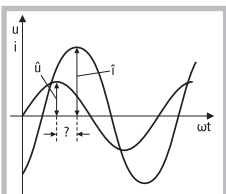
HZ815 Power Adapter



RMS value



Active power



- Measurement range: 1 mW to 8 kW
- Voltages from 100 mV to 500V, currents from 1 mA to 16 A
- Frequency range: DC to 1 kHz
- Simultaneous display of voltage, current and power (W, var, VA or power factor) values
- Auto-ranging for easy measurement
- Suitable for measurements on frequency converters
- MONITOR (BNC) shows instantaneous power value
- RS-232/USB dual interface, IEEE-488 (GPIB) optional
- PC software for automated long-term data acquisition included

## Power Consumption Meter 8 kW HM8115-2

All data valid at 23 °C after 30 minutes warm-up.

Voltage	True RMS voltage measurement (AC + DC)		
Ranges:	50V	150V	500V
Resolution:	0.1V	1V	1V
Accuracy:	20 Hz to 1 kHz:	±(0.4% + 5 digit)	
	DC:	±(0.6% + 5 digit)	
Input impedance:	1 MΩ    100 pF		
Crest factor:	max. 3.5 at full scale		
Input protection:	max. 500V <sub>p</sub>		

Current	True RMS current measurement (AC + DC)		
Ranges:	160 mA	1.6 A	16 A
Resolution:	1 mA	1 mA	10 mA
Accuracy:	20 Hz to 1 kHz:	±(0.4% + 5 digit)	
	DC:	±(0.6% + 5 digit)	
Crest factor:	max. 4 at full scale		
Input protection:	fuse, FF 16A 6.3 x 32mm (superfast)		

### Active power measurement

The measurement range is the product of the selected voltage respective current ranges.

Ranges:	8 W	24 W	80 W	240 W	800 W	2,400 W	8,000 W
Resolution:	1 mW	10 mW	10 mW	100 mW	100 mW	1 W	1 W
Accuracy:	20 Hz to 1 kHz:		±(0.8% + 10 digit)				
	DC:		±(0.8% + 10 digit)				
Display:	4-digit, 7-segment LED						

### Reactive power measurement

Ranges:	8 var	24 var	80 var	240/800 var	2,400/8,000 var
Resolution:	10 mvar	100 mvar	100 mvar	1 var	1 var
Accuracy:	20 Hz to 400 Hz: ±(2.5% + 10 digit + 0.02 x P)				
	P = active power				
Display:	4-digit, 7-segment LED				

### Apparent power measurement

Ranges:	8 VA	24 VA	80 VA	240/800 VA	2,400/8,000 VA
Resolution:	1 mVA	10 mVA	10 mVA	100 mVA	1 VA
Accuracy:	20 Hz to 1 kHz: ±(0.8% + 5 digit)				
Display:	4-digit, 7-segment LED				

### Power factor measurement

Display:	0.00 to +1.00
Accuracy:	50 Hz to 60 Hz: ±(2% + 3 digit) (sine wave) voltage and current >1/10 of full scale

### Monitor output (analog)

Connection:	BNC connector (galvanic isolation to test circuit and RS-232 interface)
Reference potential:	protective earth
Level:	1 V <sub>ac</sub> at full scale (2,400/8,000 digit)
Accuracy:	typ. 5%
Output impedance:	approx. 10 kΩ
Bandwidth:	DC to 1 kHz
Protected up to:	±30V

### Functions and displays

Measurement functions:	voltage, current, power, power factor
Range selection:	automatic/manual
Overrange alarm:	visual and acoustic
Display resolution:	
Voltage	3-digit, 7-segment LED
Current	4-digit, 7-segment LED
Power	4-digit, 7-segment LED
Power factor	3-digit, 7-segment LED

### Interface

Interface:	Dual interface USB/RS-232 (H0820), IEEE-488 (GPIB) (optional)
Connection RS-232:	D-sub connector (galvanic isolation to test circuit and monitor output)
Protocol:	Xon/Xoff
Data rate:	9,600 Baud
Functions:	control/data fetch

### Miscellaneous

Safety Class:	Safety Class I (EN 61010-1)
Power supply:	115/230V ±10%, 50 Hz to 60 Hz, CAT II
Power consumption:	approx. 15W at 50 Hz
Operating temperature:	+5 °C to +40 °C
Storage temperature:	-20 °C to +70 °C
Rel. humidity:	5% to 80% (non condensing)
Dimensions (W x H x D):	285 x 75 x 365 mm
Weight:	approx. 4 kg

**Accessories supplied:** Line cord, printed operating manual, CD, Software

### Recommended accessories:

H0880	Interface IEEE-488 (GPIB), galvanically isolated
HZ10S	5 x silicone test lead (measurement connection in black)
HZ10R	5 x silicone test lead (measurement connection in red)
HZ10B	5 x silicone test lead (measurement connection in blue)
HZ13	Interface cable (USB) 1.8 m
HZ14	Interface cable (serial) 1:1
HZ33	Test cable 50 Ω, BNC/BNC, 0.5 m
HZ34	Test cable 50 Ω, BNC/BNC, 1.0 m
HZ42	19" Rackmount kit 2RU
HZ72	GPIB-Cable 2 m
HZ815	Socket adapter