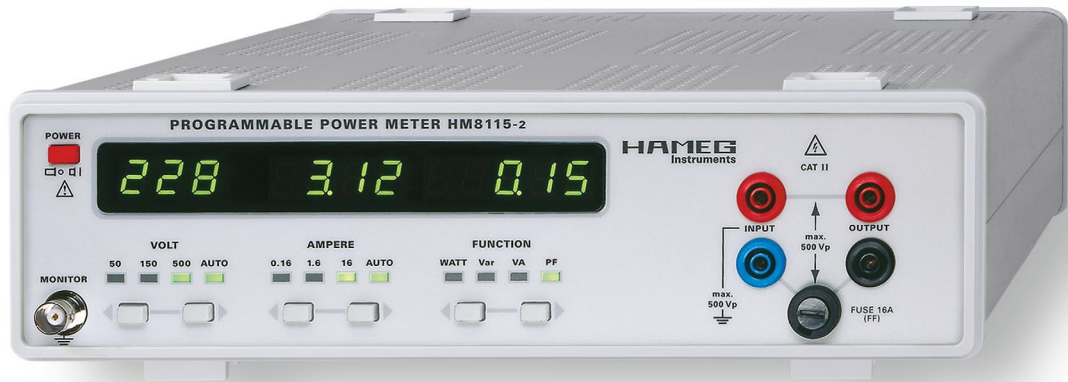
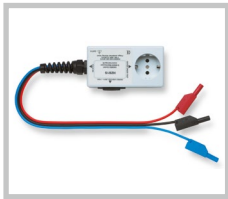


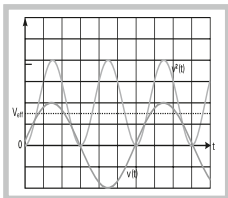
8kW Power Meter HM8115-2



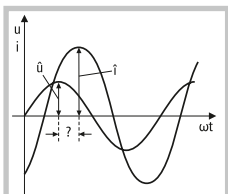
HZ815 Power Adapter



RMS Value



Active Power



- ✓ Wide Measurement Range 1mW...8kW
- ✓ Voltage Range 100mV...500V, Current Range 1mA...16A
- ✓ Frequency Range DC...1kHz
- ✓ Simultaneous Voltage, Current and Power Display
- ✓ Display of apparent, effective and reactive Power
- ✓ Power Factor Display
- ✓ Autoranging, simple Operation
- ✓ Monitor Output (BNC) representing the instantaneous Active Power
- ✓ Suitable for Measurements on Frequency Converters
- ✓ Software for Remote Control and Data Acquisition included
- ✓ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 (GPIB)

8 kW Power Meter 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:	0.1 V	1 V	1 V
Accuracy:	20 Hz...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 _p		

Current	True RMS current measurement (AC+DC)		
Ranges:	160mA	1.6 A	16 A
Resolution:	1 mA	1 mA	10 mA
Accuracy:	20 Hz...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							
Ranges:	8W	24W	80W	240W	800W	2400W	8000W
Resolution:	1mW	10mW	10mW	100mW	100mW	1W	1W
Accuracy:	20 Hz...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 2400/8000 var
Resolution:	10 mvar	100 mvar	100 mvar	1 var 1 var
Accuracy:	20...400 Hz: $\pm(2.5\% + 10 \text{ digit} + 0.02 \times P)$			
	P = active power			
Display:	4-digit, 7-segment LED			

Apparent power measurement				
Ranges:	8VA	24VA	80VA	240/800VA 2400/8000VA
Resolution:	1mVA	10mVA	10mVA	100mVA 1VA
Accuracy:	20Hz...1kHz:			±(0.8% + 5 digit)
Display:	4-digit, 7-segment LED			

Power factor measurement	
Display:	0.00...+1.00
Accuracy:	50...60 Hz: $\pm(2\% + 3 \text{ digit})$ (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 _{ac} at full scale (2400/8000 digit)
Accuracy:	typ. 5%
Output impedance:	approx. 10 k Ω
Bandwidth:	DC...1 kHz
Protected up to:	± 30 V

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:	USB/RS-232 (H0820), IEEE-488 (option)
Connection RS-232:	D-sub connector (galvanic isolation to test circuit and monitor output)
Protocol:	Xon/Xoff
Data rate:	9600 Baud
Functions:	control/ data fetch

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

Accessories supplied: Line cord, Operating manual, software

Recommended accessories:

H0880	IEEE-488 (GPIB) Interface (galvanically isolated)
HZ10S	5 x silicone test lead black
HZ10R	5 x silicone test lead red
HZ10B	5 x silicone test lead 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 m
HZ42	19" Rackmount kit 2RU
HZ72	GPIB-Cable 2 m
HZ815	Socket adapter