

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:		0.1V	1V	1V
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:		160 mA	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

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...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...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...1 kHz:		±(0.8% + 5 digit)		
Display:	4-digit, 7-segment LED				

Power factor measurement

Display:	0.00...+1.00
Accuracy:	50...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:	1V _{ac} at full scale [2,400/8,000 digit]
Accuracy:	typ. 5%
Output impedance:	approx. 10 kΩ
Bandwidth:	DC...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 (HO820), 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...60Hz, CAT II
Power consumption:	approx. 15W at 50Hz
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, CD, Software

Recommended accessories:

HO880	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