

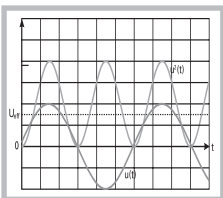
8 kW Power Meter HM8115-2



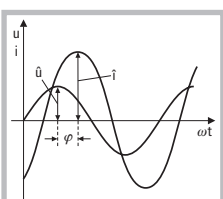
HZ815 Power adapter



RMS value



Active power



Power measurement up to 8 kW

Simultaneous voltage, current and power display

Display of apparent, effective and reactive power

Power factor display

Autoranging, simple operation

Suitable for measurements on frequency converters

Frequency range DC to 1 kHz

RS-232 interface (including software)



8 kW Power Meter HM8115-2

Valid at 23 °C after a 30 minute warm-up period

Voltage		True RMS voltage measurement (AC+DC)	
Ranges:	50V 150V 500V		
Resolution:	0.1V 1V 1V		
Accuracy:	20 Hz – 1 kHz: ± (0.4 % + 5 digits)		
	DC: ± (0.6 % + 5 digits)		
Input impedance:	1 MΩ 100 pF		
Crest factor:	max. 3.5 at full scale		
Input protection:	max. 500 V _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 digits)		
	DC: ± (0.6 % + 5 digits)		
Crest factor:	max. 4 at full scale		
Input protection:	fuse, FF 6 A 6.3 x 32 mm (superfast)		

Active power measurement	
Ranges:	8W 24W 80W 240W 800W 2400W 8000W
Resolution:	1 mW 10 mW 10 mW 100 mW 100 mW 1 W 1 W
Accuracy:	20 Hz – 1 kHz: ± (0.5 % + 10 digits)
	DC: ± (0.5 % + 10 digits)
Display:	4-digit, 7-segment LED

Reactive power measurement	
Ranges:	8 var 24 var 80 var 240/800 var 2400/8000 var
Resolution:	1 mvar 10 mvar 10 mvar 100 mvar 1 var
Accuracy:	20 Hz – 400 Hz: ± (2.5 % + 10 digits + 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 2400/8000 VA
Resolution:	1 mVA 10 mVA 10 mVA 100 mVA 1 VA
Accuracy:	20 Hz – 1 kHz: ± (0.8 % + 5 digits)
Display:	4-digit, 7-segment LED

Power factor measurement	
Display:	0.00 to +1.00
Accuracy:	50 Hz-60 Hz: ± (2% + 3 digits) [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 digits)
Accuracy:	typ. 5 %
Output impedance:	approx. 10 kΩ
Bandwidth:	DC to 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

Serial interface

Connection:	D-sub connector (galvanic isolation to test circuit and monitor output)
Type:	RS-232 (3-wire)
Protocol:	Xon / Xoff
Data rate:	9600 Baud
Functions:	control/data fetch

Miscellaneous

Safety Class:	Safety Class I [EN 61010]
Power supply:	115/230 V ± 10 %, 50/60 Hz
Power consumption:	approx. 15 W at 50 Hz
Operating temperature:	0° to +40° C
Max. relative humidity:	< 80 % (without condensation)
Dimensions (W x H x D):	285 x 75 x 365 mm

Accessories supplied: Operator's Manual, power cable
Optional accessories: HZ10 Silicone test leads, HZ815 Power Adapter

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