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Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

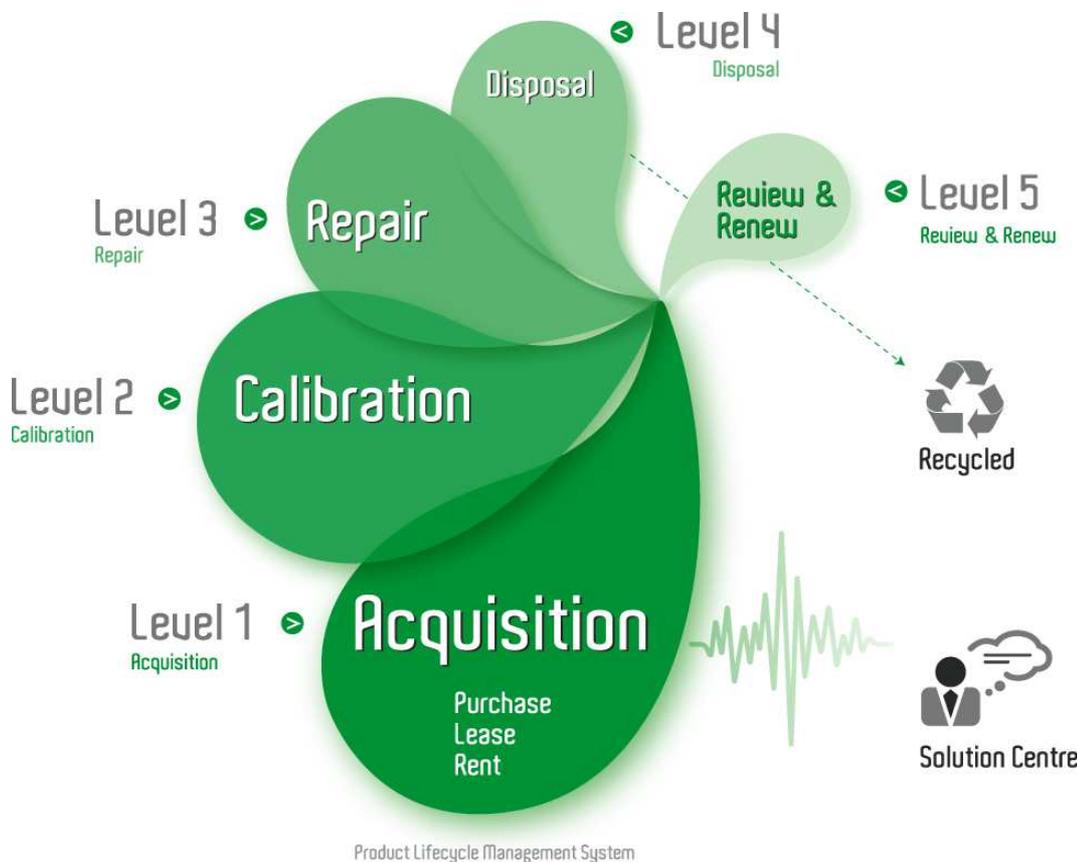
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Product Lifecycle Management System

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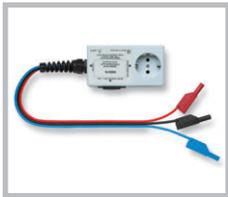


8 kW Power Meter HM8115-2

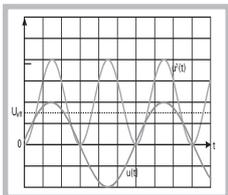
HM8115-2



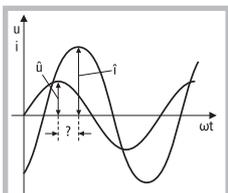
HZ815 Power adapter



RMS value



Active power



Wide measurement range 1 mW to 8 kW

Voltage range 100 mV to 500 V, current range 1 mA to 16 A

Frequency range DC to 1 kHz

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

RS-232 Interface, optional: USB, IEEE-488

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:	50 V	150 V	500 V
Resolution:	0.1 V	1 V	1 V
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 Vp		

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 16A 6.3 x 32 mm (superfast)		

Active power measurement						
Ranges:	8 W	24 W	80 W	240 W	800 W	2400 W 8000 W
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

Interface	
Interface:	RS-232 (standard), IEEE-488 or USB (opt.)
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 ± 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
Weight:	approx. 4 kg

Accessories supplied: Operator's Manual, power cable, software

Optional accessories:
HZ10S/R Silicone test lead
HZ815 Socket adapter
H0870 USB Interface
H0880 IEEE-488 (GPIB) Interface

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