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## Test & Measurement

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## 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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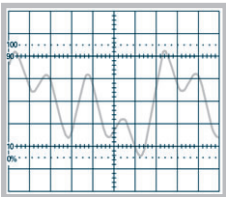


# Arbitrary Power Supply HM8143

HM8143



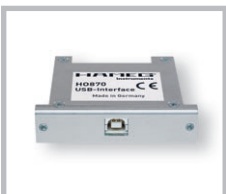
AF arbitrary signal



H0880 IEEE-488 (GPIB)  
Interface



H0870 USB-Interface



2x 0–30 V/0–2 A      1x 5 V/0–2 A

Display resolution 10 mV/1 mA

Parallel (up to 6 A) and Series (up to 65 V) Operation

Arbitrary waveform power supply (4096 points, 12 bit):  
Creation of customized waveforms

Software for remote control and for creation of Arbitrary  
waveforms

Electronic fuse and Tracking mode for 30 V outputs

External modulation of output voltages:  
Input Voltage 0–10 V, bandwidth 50 kHz

Electronic load up to 60 W per Channel (max. 2 A)

SENSE lines for compensation of the voltage drop across the  
cables

Multimeter mode for all adjustable outputs

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

## Arbitrary Power Supply HM8143

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

Outputs	
2 x 0-30V/2A	On/off pushbutton control, Floating outputs (allowing parallel and series operation), current limit, electronic fuse, tracking mode
1 x 5V/2A	

Channels I + III (0-30 V)	
Output voltage:	2 x 0 – 30V
Setting resolution:	10 mV
Setting accuracy:	±3 digits (typ. ± 2 digit)
Measurement accuracy:	±3 digits (typ. ± 2 digit)
Residual ripple:	< 5 mV <sub>rms</sub> (3 Hz - 300 kHz)
<b>Recovery time (10 % - 90 % load variation)</b>	
	30 µs within ±1 mV of nominal value
	10 µs within ±100 mV of nominal value
<b>Max. vorüberg. Abweichung:</b>	typ. 800 mV
<b>Vollständige Lastausregelung (bei 50% Grundlast und ±10% Lastsprung)</b>	
	30 µs within ±1 mV of nominal value
	10 µs within ±100 mV of nominal value
<b>Max. transient deviation:</b>	typ. 120 mV
<b>Compensation of line resistances (SENSE):</b>	
	up to 300 mV
Output current:	2 x 0 – 2 A
Setting resolution:	1 mA
Setting accuracy:	±3 digits (typ. ± 2 digit)
Measurement accuracy:	±3 digits (typ. ± 2 digit)
Recovery time:	< 100 µs

Channel II (5V)	
Accuracy:	5V ± 50 mV
Output current:	max. 2 A
Ripple:	≤ 100 µV <sub>rms</sub> (3 Hz – 300 kHz)
<b>Recovery time (10 % - 90 % load variation)</b>	
	30 µs within ±1 mV of nominal value
	0 µs within ±100 mV of nominal value
<b>Max. transient deviation:</b>	typ. 60 mV
<b>Recovery time (50 % basic load, 10 % load variation)</b>	
	30 µs within ±1 mV of nominal value
	0 µs within ±100 mV of nominal value
<b>Max. transient deviation:</b>	typ. 20 mV

Arbitrary Function (Channel I only)	
Number of points:	max. 4096
Resolution:	12 Bit
Parameters of points:	Dwell time and Voltage
Dwell time:	100 µs ... 60 s
Repetition rate:	1...255 and continuous

Inputs:	
Modulation input (BNC socket):	0–10 V
Accuracy:	1 % of full scale
Modulations bandwidth (- 3dB):	> 50 kHz
Slew rate (dV/dt):	1 V/µs
Trigger input (BNC socket):	Triggering the arbitrary function
Level:	TTL
Miscellaneous	
Max. voltage applicable to output terminals (ON/OFF)	CH I + CH III: 30V CH II: 5V
Voltage to earth:	max. 150V
Display:	4 x 4-digit 7-segment LEDs
Interface:	RS-232 (standard), IEEE-488 or USB (option)
Protection class:	I acc. to EN 61010 (IEC 61010) with protective earth
Power supply:	115/230V ± 10%; 50/60 Hz
Mains fuse:	115V: 2 x 6 A slow blow 5 x 20 mm 230V: 2 x 3,15 A slow blow 5 x 20 mm
Power consumption:	approx. 300 VA
Operating temperature:	0 °C...40 °C
Storage temperature:	- 20 °C...+70 °C
Max. relative humidity:	< 80 % (without condensation)
Dimensions (WxHxD):	285 x 75 x 365 mm
Weight:	approx. 9 kg

**Im Lieferumfang enthalten:** Operator's Manual and power cable, Software  
**Optional accessories:** HZ10S/R Silicone test lead, HZ42 19" Rackmount kit 2RU, H0870 USB Interface, H0880 IEEE-488 (GPIB) Interface

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