

# HM8040-3

## Triple Power Supply

### Technical Data



#### Key facts

- ▮ 2x 0V to 20V / 0.5A – 1x 5V / 1A
- ▮ 3-digit switchable displays for current and voltage
- ▮ Display resolution 0.1V/1mA
- ▮ Adjustable current limiting
- ▮ Linear inline regulator
- ▮ Low residual ripple and low noise
- ▮ Pushbutton for activating/deactivating all outputs
- ▮ Electronic fuse
- ▮ Mainframe HM8001-2 required for operation

# Technical Data

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All data valid at 23 °C after 30 minutes warm-up.

Outputs	
2 x 0V to 20V and 5V	Single pushbutton control of all outputs, linear regulators with overheating protection. Floating outputs for parallel/serial operation, current limit and electronic fuse.
20 V Output	
Setting range:	2 x 0V to 20V, continuously variable
Residual ripple:	$\leq 1 \text{ mV}_{\text{rms}}$
Output current:	max. 0.5A
Current limit /electronic fuse:	0A to 0.5A continuously variable
Dynamic behaviour:	Load change 10% - 90% of full load
Recovery time:	200 $\mu\text{s}$
Dyn. transient deviation:	typ. 2 mV
Dyn. output impedance:	3.75 m $\Omega$
Load change at 50% basic load and $\pm 10\%$ of full load	
Recovery time:	150 $\mu\text{s}$
Dyn. transient deviation:	400 $\mu\text{V}$
Dyn. output impedance:	4 m $\Omega$
5V Output	
Range:	5V $\pm 0.5\text{V}$ (screw-driver adjustment)
Ripple and noise:	$\leq 1 \text{ mV}_{\text{rms}}$
Output current:	max. 1 A continuous, short-circuit-proof
Combined displays of 20V outputs	
7-segment LED:	2 x 3-digit displays, each switchable for voltage and current (V, mA)
Resolution:	0.1 V / 1 mA
Display accuracy:	$\pm 1$ digit voltage / $\pm 4$ digit current
LED:	current limit indication
Maximum limits	
Reverse voltage:	25 V, each output
Reverse current:	500 mA, each output
Voltage to ground:	100 V, each terminal
Temperature control:	If the inside temperature exceeds 75°C to 80°C, the instrument will be turned off.
Miscellaneous	
Safety class:	Safety class I (EN61010-1)
Power supply (from mainframe):	1 x 8V / 1 A 2 x 24V / 530 mA 1 x 5V / 400 mA 1 x 18VAC / 100 mA $\Sigma = 40 \text{ W}$
Current output of 2 HM8040-3 with HM8001-2:	sum of all channels $\leq 2 \text{ A}$
Operating temperature:	+5 °C to +40 °C
Storage temperature:	-20 °C to +70 °C
Max. relative humidity:	5% to 80% (without condensation)
Dimensions (W x H x D):	135 x 68 x 228 mm
Weight:	approx. 1.07 kg

**Included in delivery:** User Manual

**Optional accessories:** HZ10S/-R/-B Silicon insulated cable