

## Triple Power Supply HM8040-3



2x 0-20 V/0.5 A      1x 5 V/1 A

3-digit switchable displays for current and voltage

Display resolution 0.1 V/1 mA

Adjustable current limiting

Linear in line regulator

Low residual ripple and low noise

Pushbutton for activating/deactivating all outputs

Electronic fuse

Mainframe HM8001-2 required for operation

Mainframe HM8001-2



Silicone test lead HZ10



## Triple Power Supply (module) HM8040-3

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

### Outputs

**2 x 0-20V 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 0 – 20V, continuously variable

**Residual ripple:**  $\leq 1 \text{ mV}_{\text{rms}}$

**Output current:** max. 0.5A

**Current limit / electronic fuse:** 0 – 0.5 A 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 $\Omega$

### 5 V Output

**Range:** 5V  $\pm 0.5$ 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 20 V 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:** 25V, each output

**Reverse current:** 500 mA, each output

**Voltage to ground:** 100V, each terminal

**Temperature control:** If the inside temperature exceeds 75...80° C, the HM8040-3 will be turned off.

### Miscellaneous

**Safety class:** Safety class I (EN61010-1)

**Power supply (from mainframe):**

1 x 8V

2 x 24V

1 x 5V

1 x 18V<sub>AC</sub>

**Power consumption, with HM8001-2:**

max. 90 VA/75 W

(max. 110 VA/95 W, 5V output shorted)

**Current output**

of 2 HM8040-3 with HM8001-2: sum of all channels < 2 A

**Operating temperature:** 0 °C to +40 °C

**Storage temperature:** -20 °C to +70 °C

**Max. relative humidity:** < 80 % (without condensation)

**Dimensions (W x H x D):** 135 x 68 x 245 mm

**Weight:** approx. 1.07 kg

**Accessories supplied:** Operator's Manual

**Optional accessories:**

HZ10S/R Silicone test lead

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