

Specifications

(Reference Temperature: 23°C ± 1°C)

Output Voltages:

Variable: Dual 0-20V, continuously variable
Fixed: 5.0V ±0.5V

Voltages 2x0-20V:

Range: 0-20V, continuously variable
 via coarse and fine voltage output controls

Resolution: ≤0.1%
Internal resistance: ≤15mΩ (typ. 7mΩ)

Stability: ≤2.5mV (I max.: 2x200mA)
 at line voltage variations of up to 10%

Recovery time: ≤80µs
Load regulation: ≤0.05%

Temperature coefficient: ≤0.1%/°C
Ripple and noise: ≤1mV

Output current: max. 0.5A
Current limit: 10mA to 500mA
 continuously adjustable

Resolution: <1%

Voltage +5V:

Range: 5V, variable ±0.5V
Internal resistance: ≤0.05Ω
Stability: ≤5mV

at line voltage variations of up to 10%
Recovery time: ≤100µs
Temperature coefficient: ≤0.1%/°C

Ripple and noise: ≤5mV
Output current: max. 1A

Display:

Two 3-digit 7-segment LED-displays
 Indication for V and mA (selectable)
 Current limit indicator

General Information:

All outputs are floating.
 Series connection of all outputs possible.
 Outputs are switchable from the front panel.
 Built in overheating protection.

Supply voltages: (from HM8001):
 1x8V ~ 0.32A
 2x24V = 0.5A
 1x5V = 1A
 Σ = 32W max.

Operating conditions: 0°C to +40°C
 max. relative humidity: 80%

Dimensions (without 22-pin flat connector):
W 135, **H** 68, **D** 228mm
Weight: approx. 1.05kg

Values without tolerances are meant to be guidelines and represent characteristics of the average instrument.

Subject to change without notice

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Triple Power Supply HM8040-2

- 3 independent DC Supply Voltages
- 2x0-20V, 0.5A; 1x5V, 1A (when operated with HM8001-2)
- Floating Outputs
- Digital Display for Voltage and Current
- Adjustable Current Limiter
- Parallel and Serial Operation

The **HM8040-2 Triple Power Supply** is a compact modular unit developed to supply power to laboratory test systems and is also used in technical schools and educational institutions. The **HM8040-2** is a conventionally designed, linear series regulator configuration that assures dependable, low-noise power output. Three **floating** output voltages supply a maximum capacity of **25 Watts**.

Two **continuously variable** outputs of **0 to 20V** are combined with a **5.0V** output that is adjustable **±0.5V**. This is an excellent feature when working with digital logic circuitry. Current limiting for both **20V** ranges is continuously adjustable. The transition from voltage control to current control is automatic and clearly indicated. Each **3-digit display** is switchable to display either voltage or current. All outputs can be switched ON / OFF simultaneously via a single push button switch, which permits voltage value set-up while the output is switched off. **Series** or **parallel** configuration is possible between all of the three floating outputs.

Excellent line and load regulation is provided in addition to low residual ripple and noise. There is suitable protective circuitry for all of the power outputs.

Due to maximum power limitations, only one HM8040-2 at a time can be used in an HM8001-2 Mainframe.

Accessories supplied
 Operators Manual

Optional accessories
 HZ10: Silicon test lead,
 40 inch, with stack up
 banana plugs each end