

## Data Sheet

# BDM40

## 4 1/2 Digit Display, True RMS, Benchtop DMM

### Bench testing of voltage, ohms and amps made easy and precise

- AC and dc voltage, current, resistance and diode test
- High accuracy, basic V dc 0.03 %
- 2A fused and 20A range
- Easy-to-read, 0.5 Inch LED Display

This 4 1/2 digit (20,000 counts) digital multimeter features True RMS (ac or ac + dc coupling) measurement capabilities to assure accuracy regardless of the

types of waveforms. The BDM40 features high resolution at a low cost, which makes it ideal for production test, QA test, depot service and university and school labs.

Measurement capabilities include voltage from 10 mV to 1200 V dc and to 1000 V ac, current from 10 mA to 20 A, and resistance from 10 mΩ to 20 MΩ. Diode test is provided on the 2 kΩ range.

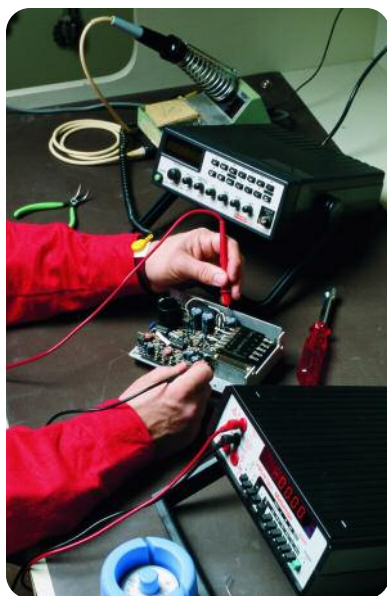
The interlocking push buttons on the front panel provide easy selection of functions and ranges. Bold labels on the input jacks increase visibility and offer an added safety, as does the fully fused 2A jack.

The BDM40's full 360° adjustable tilt bail and LED display maximize readability for most any bench application. Each meter comes with standard test leads, power cord, and operator's manual. A full line of optional probes, current clamps and test leads is available to meet your application needs.



### Specifications (at 23 °C ± 5 °C; <70 % R.H.)

Function	Range	Accuracy
<b>DC and AC voltage</b>		
DC voltage	200 mV, 2 V, 20 V, 200 V, 1200 V	± 0.03% rdg ± 4 dgt
AC voltage	200 mV, 2 V, 20 V, 200 V, 1000 V	45 Hz to 2 kHz ± 0.5 % rdg ± 15 dgt
		2 kHz to 10 kHz ± 1.0 % rdg ± 15 dgt
		10 kHz to 20 kHz ± 2.0 % rdg ± 15 dgt
		20 kHz to 50 kHz ± 5.0 % rdg ± 30 dgt
	1000 V	45 Hz to 1 kHz ± 0.5% rdg ±15 dgt
AC conversion type	True RMS	
Crest factor	1:1 to 1:3 full scale	
Max. resolution	10 μV	
Input impedance	DC 10 MΩ AC 10 MΩ shunted by 10 pF	
<b>DC and AC current</b>		
DC current	200 mA, 2 mA, 20 mA, 200 mA	± 0.2% rdg ± 2 dgt
	2 A, 20 A	± 0.3% rdg ± 2 dgt
AC current	200 mA, 2 mA, 20 mA, 200 mA	45 Hz to 2 kHz ± 0.5% rdg ± 15 dgt
		2 kHz to 10 kHz ± 1.0% rdg ± 15 dgt
		10 kHz to 20 kHz ± 2.0% rdg ± 15 dgt
		45 Hz to 2 kHz ± 0.5% rdg ± 15 dgt
	2 A, 20 A	
<b>Resistance</b>		
200 Ω, 2 kΩ, 20kΩ, 200 kΩ, 2 MΩ, 20 MΩ	200 Ω	± 0.1% rdg ± 4 dgt
	2 kΩ, 20 kΩ, 200 kΩ, 2 MΩ	± 0.1% rdg ± 2 dgt
	20 MΩ	± 0.25% rdg ± 2 dgt
Diode Test	On 2kΩ range	
<b>Overload protection</b>		
Voltage (ac/dc)	1200 V dc or peak ac Continuous (< 10 seconds in 200 mV and 2 V ranges).	
Current (ac/dc)	2 A @ 250 V	
Resistance	250 V dc/ac RMS on all ranges	



### General Specifications

Display	4 1/2 digit, 0.5 in H (12.7 mm), red LED
Update Speed	2rdg/sec.
Power	117 V ac $\pm 10\%$ or 234 V ac $\pm 10\%$ , 50/60 Hz
Operating temperature	0 °C to 50 °C (32 °F to 122 °F);
Size	7.9 cm x 23 cm x 33 cm (3.1 in x 9 in x 13 in)
Weight	2.2 kg (4.7 lb)
Warranty	One year

### Included accessories

Spare fuses, standard test leads, 117V and 220V line cords and users manual

**No waiting.**

**No shipping charges.**



## No hassle warranty

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that a Meterman test tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

**Meterman®**  
**The right tool, everyday.™**

#### Meterman Test Tools

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 3/2005 2428662 D-US-N Rev A