

4¹/₂ DIGIT MULTIMETER

MODEL B-845

OPERATING MANUAL

Protek

DESCRIPTION

The **Protek** Model B-845 is a truly unique 4 1/2 digit Bench top Digital Multimeter capable of reading 5 functions on 29 ranges with a basic DC Volt accuracy of 0.05% of reading. The B-845 offers a powerhouse of measurement capability.

A. GENERAL

Power Source: 100V, 110V, 220V, 240V

Display: 11 mm Digit Height, 4 1/2 Digits with "--" and "CONTINUITY" and decimal annunciators.

Overrange indication: 4 least significant digits blanked.

Sampling rate: 2.5 times per second.

Operating Environment: 0 to 40°C at 80% relative humidity.

Storage Environment: -20°C ~ 80°C

Dimensions: 240mm x 205mm x 75mm

Weight: 2159 gram

Standard Accessories:	Test probe (red & black)	1 pair
	Spare fuse (1A/250V)	1 piece
	Operation Manual	1 piece
	Power ER Cord	1 piece

B. MEASUREMENT RANGE AND ACCURACY

1. DC Voltage

Range	Resolution	Accuracy	Overload prot.
200 mV	10 μ V	\pm (0.05% rdg + 2d)	500 V AC/DC
2 V	100 μ V	\pm (0.05% rdg + 2d)	500 V AC/DC
20 V	1 mV	\pm (0.05% rdg + 2d)	500 V AC/DC
200 V	10 mV	\pm (0.05% rdg + 2d)	1000 V DC or Peak
1000 V	100 mV	\pm (0.075% rdg + 2d)	1000 V DC or Peak

Input impedance: 10M ohm all ranges

2. AC Voltage

Range	Resolution	Accuracy	Overload prot.
200 mV	10 μ V	\pm (0.5% rdg + 10d)	350 V AC/DC
2 V	100 μ V	\pm (0.5% rdg + 10d)	350 V AC/DC
20 V	1 mV	\pm (0.5% rdg + 10d)	350 V AC/DC
200 V	10 mV	\pm (0.5% rdg + 10d)	1000 V DC or Peak
750 V	100 mV	\pm (0.75% rdg + 10d)	1000 V DC or Peak

Input impedance: 10M ohm Less than 100 pF

3. DC Current

Range	Resolution	Accuracy	Burden V.	Overload prot.
200 μ A	10 nA	\pm (0.3% rdg + 3d)	0.3V max.	2A Fuse
2 mA	0.1 μ A	\pm (0.3% rdg + 3d)	0.3V max.	2A Fuse
20 mA	1 μ A	\pm (0.3% rdg + 3d)	0.3V max.	2A Fuse
200 mA	10 μ A	\pm (0.3% rdg + 3d)	0.3V max.	2A Fuse
2000 mA	100 μ A	\pm (0.3% rdg + 3d)	0.5V max.	2A Fuse
10 A	1 mA	\pm (1% rdg + 3d)	0.7V max.	Not Fused

4. AC Current Range	Resolution	Accuracy	Burden V.	Overload prot.
200 μ A	10 nA	\pm (0.75% rdg + 10d)	0.3V max.	2A Fuse
2 mA	0.1 μ A	\pm (0.75% rdg + 10d)	0.3V max.	2A Fuse
20 mA	1 μ A	\pm (0.75% rdg + 10d)	0.3V max.	2A Fuse
200 mA	10 μ A	\pm (0.75% rdg + 10d)	0.3V max.	2A Fuse
2000 mA	100 μ A	\pm (0.75% rdg + 10d)	0.5V max.	2A Fuse
10 A	1 mA	\pm (1% rdg + 10d)	0.7V max.	Not Fused

5. Resistance Range	Resolution	Accuracy	Overload prot.
200 ohm	10 mohm	\pm (0.2% rdg + 5d)	350 V AC/DC
2 K	100 mohm	\pm (0.2% rdg + 5d)	350 V AC/DC
20 K	1 ohm	\pm (0.2% rdg + 5d)	350 V AC/DC
200 K	10 ohm	\pm (0.2% rdg + 5d)	350 V AC/DC
2 M	100 ohm	\pm (0.5% rdg + 10d)	350 V AC/DC
20 M	1 K	\pm (0.75% rdg + 10d)	350V AC/DC

6. Diode check and Audible Continuity check

Range Function
 Diode Check: Display will indicate approximate forward voltage drop of Diode.
 Continuity check: Buzzer sounds and "CONTINUITY" Displays at approximately less than 200 ohm

