

Data sheet

Manual Ranging Tool Kit® DMM

Model 2703C



The 2703C is a versatile low cost manual ranging DMM that combines performance, value and functionality. Value-packed features make this meter a must in every "Tool Kit®".

Features

- Magnetic hanger
- One-handed operation
- Measures up to 10 A (DC only)
- DC voltage to 1000 V
- AC voltage to 750 V
- Resistance to 20 MΩ
- Continuity test
- Diode test

Specifications

model

2703C

DC Volts

Ranges	2 V, 20 V, 200 V, 1000V
Resolution	1 mV, 10 mV, 100 mV, 1 V
Accuracy	$\pm(1.2 \% \text{ rdg} + 1 \text{ dgts})$
Input Impedance	10 MΩ
Overload Protection	1000 VDC or 750 VACrms

AC Volts (50 Hz-500 Hz)

Ranges	200 V, 750 V
Resolution	100 mV, 1 V
Accuracy	200 V range: $\pm(2.0 \% \text{ rdg} + 5 \text{ dgts})$ 750 V range: $\pm(2.0 \% \text{ rdg} + 10 \text{ dgts})$
Input Impedance	10 MΩ
Overload Protection	1000 VDC or 750 VACrms

DC Current

Ranges	2 mA, 20 mA, 200 mA, 10 A
Resolution	1 μA, 10 μA, 100 μA, 10 mA
Accuracy	2 mA to 200 mA ranges: $\pm(1.5 \% \text{ rdg} + 1 \text{ dgts})$ 10 A range: $\pm(3.0 \% \text{ rdg} + 3 \text{ dgts})$
Input Protection	0.5 A/500 V & 10 A/600 V fast blow ceramic fuses
10A Input	10 A for 60 sec max. followed by 10 min cooling period

Resistance

Ranges	200 Ω, 2 kΩ, 200 kΩ, 20 MΩ
Resolution	0.1 Ω, 1.0 Ω, 100 Ω, 10 kΩ
Accuracy	200 Ω to 200 kΩ ranges: $\pm(1.5 \% \text{ rdg} + 4 \text{ dgts})$ 20 MΩ range: $\pm(3.0 \% \text{ rdg} + 5 \text{ dgts})$
Open Circuit Voltage (typical)	0.3 VDC (3.0 VDC on 200 Ω)
Overload Protection	500 VDC/ACrms

Diode Test

Test Current	1.0 mA (typical)
Resolution	10 mV
Accuracy	$\pm(3.0 \% \text{ rdg} + 3 \text{ dgts})$
Open Circuit Voltage	3.0 VDC (typical)
Overload Protection	500 VDC/ACrms

Continuity

Audible Indication	Less than 100 Ω
Response Time	100 ms
Overload Protection	500 VDC/ACrms

General

Display	3 1/2 digit, 2000 count LCD
Polarity	Automatic, positive implied, negative polarity indication
Overrange	OL or -OL is displayed
Low Battery Indication	The battery symbol will display when battery voltage drops below operating levels
Measurement Rate	2.5 times per second
Auto Power Off	Approximately 25 minutes
Operating Environment	0°C to 50°C at <70 % relative humidity
Storage Environment	-20°C to 60°C at 0 to 80 % relative humidity
Accuracies	Stated accuracy at 23°C +5°C at <75 % relative humidity
Temperature Coefficient	0.1 x (spec. accuracy) per °C. (°C to 18°C, 28°C to 50°C)
Power	Single 9 volt battery, NEDA 1604, IIS 006P, IEC 6F22
Battery Life	150 hours typical
Dimensions	165 mm (H) x 78 mm (W) x 42.5 mm (D)
Weight	Approximately 10.3 oz. (377 g) with battery and hanger

One Year Warranty

Accessories

Supplied: One set test leads, one spare fuse, 9V battery (installed) and instruction manual

B&K Precision's 2700 Tool Kit® Series

Models 2703C, 2704C, 2705B, 2706B, 2707B, 2708B & 2709B

These excellent meters are for most jobs that require flexibility, accuracy and speed. Value-packed features make these meters a must for everyone's "Tool Kit®".

Common Features:

- DC Voltage to 1000V
- AC Voltage to 750V
- DC Current to 10A
- Continuity test
- Diode test
- Drop resistant case
- Magnetic hanging strap



Magnetic Hanging Strap

This convenient feature allows you to hang your DMM on any magnetic metallic surface freeing up your hands for troubleshooting.



Back Light / Easy-to-Read LCD

Model 2706B



Ultra-bright blue LCD backlight for low ambient light measurements

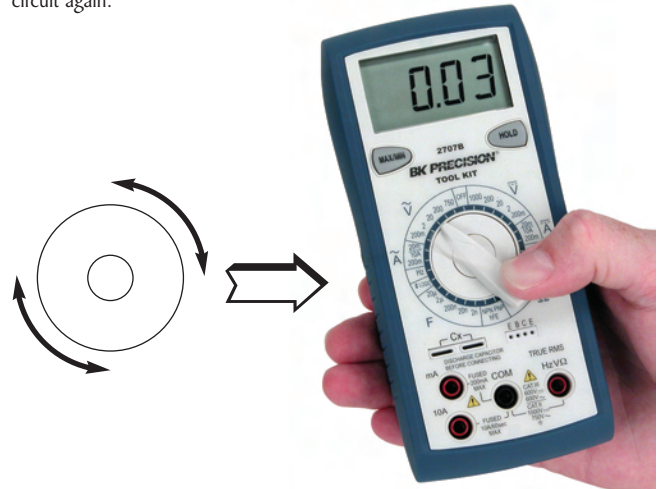
Model 2709B



Large easy-to-read LCD with green LED backlight

Single-handed operation

The ergonomic design allows both left and right handed users to rotate the knob while holding the meter in one hand. While one hand keeps the probe on the circuit, the other hand changes the meter's function. This speeds up troubleshooting because you don't have to locate the probe point in the circuit again.



Features

	models						
	2709B	2708B	2707B	2706B	2705B	2704C	2703C
Ranging	Auto/Manual	Auto/Manual	Manual	Manual	Auto/Manual	Manual	Manual
True RMS	√	√	√	-	-	-	-
Current	10 A AC/DC	10 A AC/DC	10 A AC/DC	10 A AC/DC	10 A AC/DC	10 A AC/DC	10 A DC
Capacitance	to 66,000 uF	-	to 20 uF	to 20 mF	-	to 20 uF	-
Transistor Test	-	-	√	-	-	√	-
Frequency Counter	to 66 MHz	-	√	to 40 kHz	-	√	-
Temperature	-	-	-	√	-	-	-
Logic Probe	-	-	√	-	-	√	-
Backlight LCD	√	-	-	√	-	-	-
Analog Bar Graph	-	√	-	-	-	-	-
Battery Test	-	-	-	-	-	-	√
Auto Power off	√	√	-	√	√	-	-