

# 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
<b>DC Volts</b>		
Ranges	2 V, 20 V, 200 V, 1000V	
Resolution	1 mV, 10 mV, 100 mV, 1 V	
Accuracy	±(1.2 % rdg + 1 dgts)	
Input Impedance	10 MΩ	
Overload Protection	1000 VDC or 750 VACrms	
<b>AC Volts (50 Hz-500 Hz)</b>		
Ranges	200 V, 750 V	
Resolution	100 mV, 1 V	
Accuracy	200 V range: ±(2.0 % rdg + 5 dgts) 750 V range: ±(2.0 % rdg + 10 dgts)	
Input Impedance	10 MΩ	
Overload Protection	1000 VDC or 750 VACrms	
<b>DC Current</b>		
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: ±(1.5 % rdg + 1 dgts) 10 A range: ±(3.0 % rdg + 3 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	
<b>Resistance</b>		
Ranges	200 Ω, 2 kΩ, 20 kΩ, 200 kΩ, 20 MΩ	
Resolution	0.1 Ω, 1.0 Ω, 10 Ω, 100 Ω, 10 kΩ	
Accuracy	200 Ω to 200 kΩ ranges: ±(1.5 % rdg + 4 dgts) 20 MΩ range: ±(3.0 % rdg + 5 dgts)	
Open Circuit Voltage (typical)	0.3 VDC (3.0 VDC on 200 Ω)	
Overload Protection	500 VDC/ACrms	
<b>Diode Test</b>		
Test Current	1.0 mA (typical)	
Resolution	10 mV	
Accuracy	±(3.0 % rdg + 3 dgts)	
Open Circuit Voltage	3.0 VDC (typical)	
Overload Protection	500 VDC/ACrms	
<b>Continuity</b>		
Audible Indication	Less than 100 Ω	
Response Time	100 ms	
Overload Protection	500 VDC/ACrms	
<b>General</b>		
Display	3 1/2 digit, 2000 count LCD	
Polarity	Automatic, positive implied, negative polarity indication	
Overrange	OL or -OL is displayed	
Low Battery Indication	Battery symbol will display when battery voltage drps below operating levels	
Measurement Rate	2.5 times per second	
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, JIS 006P, IEC 6F22	
Battery Life	200 hours typical	
Dimensions	165 mm (H) x 78 mm (W) x 42.5 mm (D)	
Weight	Approximately 10 oz. (285 g) with battery and hanger	
<b>Three-Year Warranty</b>		
Supplied Accessories: User manual, one set test of leads, one spare fuse, and 9V battery (installed)		

# B&K Precision's 2700 Tool Kit® Series

## Models 2703C, 2704C, 2705B, 2706B, 2707B, 2708B, 2709B & 2712

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



**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

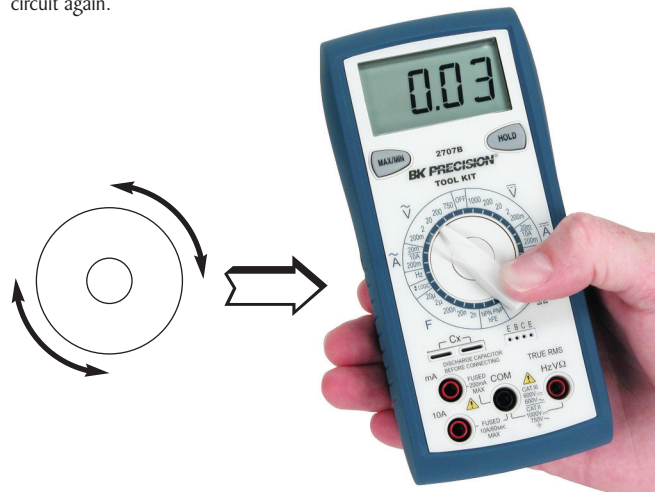
Ultra-bright blue LCD back light for low ambient light measurements

Models 2709B & 2712

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							
	2712	2709B	2708B	2707B	2706B	2705B	2704C	2703C
Ranging	Auto/Manual	Auto/Manual	Auto/Manual	Manual	Manual	Auto/Manual	Manual	Manual
True RMS	AC + DC	√	√	√	-	-	-	-
Current	10 A AC/DC	10 A AC/DC	10 A AC/DC	10 A AC/DC	200 mA AC/DC	10 A AC/DC	10 A AC/DC	10 A DC
Capacitance	to 40 uF	to 66 mF	-	to 20 uF	to 20 mF	-	to 20 uF	-
Transistor Test	-	-	-	√	-	-	√	-
Frequency Counter	to 500 kHz	to 66 MHz	-	to 20 MHz	to 40 kHz	-	to 20 MHz	-
Temperature	-	-	-	-	√	-	-	-
Logic Probe	-	-	-	√	-	-	√	-
Backlight LCD	√	√	-	-	√	-	-	-
Analog Bar Graph	√	-	√	-	-	-	-	-
Battery Test	-	-	-	-	-	-	-	√
Auto Power off	√	√	√	-	√	√	-	-