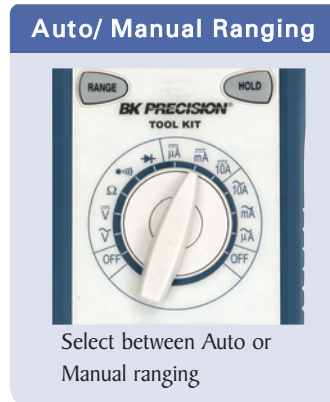


Data sheet

Auto Ranging Tool Kit® DMM Model 2705B



Select between Auto or Manual ranging

The 2705B is a full-featured auto-ranging DMM that combines performance, value and functionality. The 3400 count LCD can display resistance values up to 40 MΩ. With the auto-power-off feature, you won't have to worry about accidental battery consumption. Value-packed features make this meter a must in every "Tool Kit®".

Features

- Magnetic hanger
- One-handed operation
- Auto/manual ranging
- Auto power off
- Measures up to 10 A (AC & DC)
- DC voltage to 1000 V
- AC voltage to 750 V
- Resistance to 40 MΩ
- Continuity test
- Diode test

Specifications

model

2705B

DC Volts

Ranges	400 mV, 4 V, 40 V, 400 V, 1000V
Resolution	0.1 mV, 1 mV, 10 mV, 100 mV, 1 V
Accuracy	±(1.0 % rdg + 2 dgts)
Input Impedance	400 mV: >100 MΩ; 4 V: 10 MΩ; 40 V to 1000 V: 9.1 MΩ
Overload Protection	1000 VDC or 750 VACrms

AC Volts (50 Hz-500 Hz)

Ranges	400 mV, 4 V, 40 V, 400 V, 750V
Resolution	0.1 mV, 1 mV, 10 mV, 100 mV, 1 V
Accuracy	400 mV range at 50 Hz to 100 Hz ±(2.0 % rdg + 5 dgts)
Input Impedance	400 mV: >100 MΩ; 4 V: 10 MW; 40 V to 750 V: 9.1 MΩ
Overload Protection	1000 VDC or 750 VACrms

DC Current

Ranges	400 uA, 4000 uA, 40 mA, 400 mA, 10 A
Resolution	0.1 uA, 1 uA, 10 uA, 100 uA, 10 mA
Accuracy	400 uA to 400 mA ranges: ±(2.0 % rdg + 2 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 a 10 minute cooling period

AC Current (50 Hz-500 Hz)

Ranges	400 uA, 4000 uA, 40 mA, 400 mA, 10 A
Resolution	0.1 uA, 1 uA, 10 uA, 100 uA, 10 mA
Accuracy	20 mA to 200 mA ranges: ±(2.0 % rdg + 8 dgts) 10 A range: ±(3.5 % rdg + 8 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 a 10 minute cooling period

Resistance

Ranges	400 Ω, 4 kΩ, 400 kΩ, 40 MΩ
Resolution	0.1 Ω, 1.0 Ω, 100 Ω, 10 kΩ,
Accuracy	400 Ω to 400 kΩ ranges: ±(1.5 % rdg + 4 dgts) 4 MΩ range: ±(2.5 % rdg + 4 dgts) 40 MΩ range: ±(5.0 % rdg + 4 dgts)
Open Circuit Voltage (typical)	-0.45 VDC (-1.2 VDC on 400 Ω range)
Overload Protection	500 VDC/ACrms

Diode Test

Test Current	1.0 mA (typical)
Resolution	10 mV
Accuracy	±(3.0 % rdg + 3 dgts)
Audible Indication	<0.25 V
Open Circuit Voltage	3.0 VDC (typical)
Overload Protection	500 VDC/ACrms

Continuity

Audible Indication	Less than 25 Ω
Response Time	500 ms
Overload Protection	500 VDC/ACrms

General

Display	3 3/4 digit, 3400 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 times per second
Auto Power Off	Approximately 10 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 (specified accuracy) per °C. (°C to 18°C, 28°C to 50°C)
Power	Single standard 9 volt battery, NEDA 1604, JIS 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
- DC Current to 10A
- Diode test
- Magnetic hanging strap
- AC Voltage to 750V
- Continuity test
- Drop resistant case

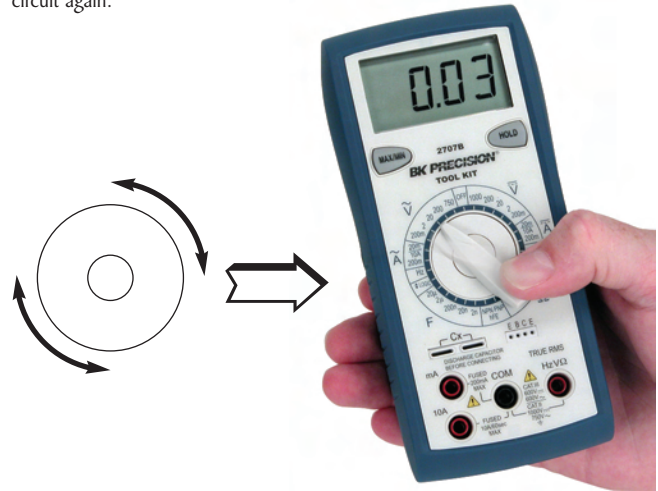


Magnetic Hanging Strap

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

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.



Back Light / Easy-to-Read LCD

Model 2706B

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

Model 2709B

Large easy-to-read LCD with green LED backlight

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	√	√	-	√	√	-	-