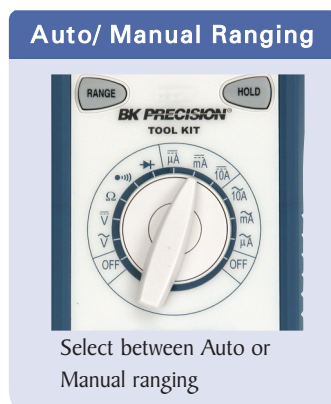


## Data Sheet

# Auto Ranging Tool Kit® DMM Model 2705B



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 M $\Omega$ . 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 M $\Omega$
- 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            | $\pm(1.0 \% \text{ rdg} + 2 \text{ dgts})$                                                         |
| Input Impedance     | 400 mV: $>100 \text{ M}\Omega$ ; 4 V: $10 \text{ M}\Omega$ ; 40 V to 1000 V: $9.1 \text{ M}\Omega$ |
| 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            | 50 Hz to 100 Hz $\pm(2.0 \% \text{ rdg} + 5 \text{ dgts})$                                        |
| Input Impedance     | 400 mV: $>100 \text{ M}\Omega$ ; 4 V: $10 \text{ M}\Omega$ ; 40 V to 750 V: $9.1 \text{ M}\Omega$ |
| Overload Protection | 1000 VDC or 750 VACrms                                                                            |

### DC Current

|                  |                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Ranges           | 400 $\mu\text{A}$ , 4000 $\mu\text{A}$ , 40 mA, 400 mA, 10 A                                                                             |
| Resolution       | 0.1 $\mu\text{A}$ , 1 $\mu\text{A}$ , 10 $\mu\text{A}$ , 100 $\mu\text{A}$ , 10 mA                                                       |
| Accuracy         | 400 $\mu\text{A}$ to 400 mA ranges: $\pm(2.0 \% \text{ rdg} + 2 \text{ dgts})$<br>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 a 10 minute cooling period                                                                              |

### AC Current (50 Hz-500 Hz)

|                  |                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Ranges           | 400 $\mu\text{A}$ , 4000 $\mu\text{A}$ , 40 mA, 400 mA, 10 A                                                                             |
| Resolution       | 0.1 $\mu\text{A}$ , 1 $\mu\text{A}$ , 10 $\mu\text{A}$ , 100 $\mu\text{A}$ , 10 mA                                                       |
| Accuracy         | 400 $\mu\text{A}$ to 400 mA ranges: $\pm(2.5 \% \text{ rdg} + 5 \text{ dgts})$<br>10 A range: $\pm(3.5 \% \text{ rdg} + 5 \text{ dgts})$ |
| 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 a 10 minute cooling period                                                                              |

### Resistance

|                                |                                                                                                                                                                                                                        |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ranges                         | 400 $\Omega$ , 4 k $\Omega$ , 40 k $\Omega$ , 400 k $\Omega$ , 40 M $\Omega$                                                                                                                                           |
| Resolution                     | 0.1 $\Omega$ , 1.0 $\Omega$ , 10 $\Omega$ , 100 $\Omega$ , 10 k $\Omega$                                                                                                                                               |
| Accuracy                       | 400 $\Omega$ to 400 k $\Omega$ ranges: $\pm(1.5 \% \text{ rdg} + 4 \text{ dgts})$<br>4 M $\Omega$ range: $\pm(2.5 \% \text{ rdg} + 4 \text{ dgts})$<br>40 M $\Omega$ range: $\pm(5.0 \% \text{ rdg} + 4 \text{ dgts})$ |
| Open Circuit Voltage (typical) | -0.45 VDC (-1.2 VDC on 400 $\Omega$ range)                                                                                                                                                                             |
| Overload Protection            | 500 VDC/ACrms                                                                                                                                                                                                          |

### Diode Test

|                      |                                            |
|----------------------|--------------------------------------------|
| Test Current         | 1.0 mA (typical)                           |
| Resolution           | 10 mV                                      |
| Accuracy             | $\pm(3.0 \% \text{ rdg} + 3 \text{ dgts})$ |
| Audible Indication   | $<0.25 \text{ V}$                          |
| Open Circuit Voltage | 3.0 VDC (typical)                          |
| Overload Protection  | 500 VDC/ACrms                              |

### Continuity

|                     |                       |
|---------------------|-----------------------|
| Audible Indication  | Less than 25 $\Omega$ |
| Response Time       | 500 ms                |
| Overload Protection | 500 VDC/ACrms         |

### General

|                         |                                                                                             |
|-------------------------|---------------------------------------------------------------------------------------------|
| Display                 | 3 3/4 digit, 4000 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 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 $\pm 5^\circ\text{C}$ at $<75 \%$ relative humidity                 |
| Temperature Coefficient | 0.1 x (specified accuracy) per $^\circ\text{C}$ . ( $^\circ\text{C}$ to 18°C, 28°C to 50°C) |
| Power                   | Single standard 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                                        |

### Three-Year Warranty

Supplied Accessories: User manual, one set of test 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
- 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 back light for low ambient light measurements

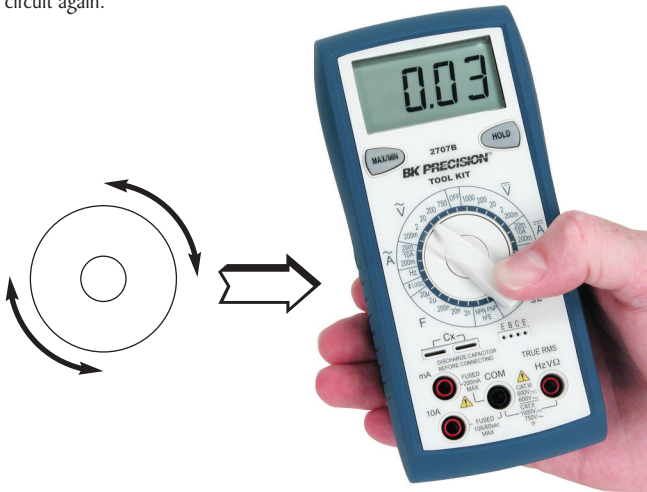
Models 2709B & 2712



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    | √           | √           | √           | -          | √            | √           | -          | -       |

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