

Manual Ranging Tool Kit® DMM with Temperature

Model 2706B



Ultra bright blue LCD back light for low ambient light measurements

The 2706B is a versatile manual-ranging DMM with temperature measurement. The 2000 count LCD has a bright blue back light that allows the meter to be used in dimly lit environments. 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

- Auto power off
- DC voltage to 1000 V
- Resistance to 20 MΩ
- One-handed operation
- Magnetic hanger
- Bright blue LCD backlight
- AC voltage to 750 V
- Capacitance to 20 mF
- Continuity test
- Diode test

Specifications

| | model 2706B |
|--------------------------------|--|
| DC Volts | |
| Ranges | 200 mV, 2000 mV, 20 V, 200 V 1000 V |
| Resolution | 0.1 mV, 1 mV, 10 mV, 100 mV, 1 V |
| Accuracy | ±(0.5 % rdg + 1 dgts) |
| Input Impedance | 10 MΩ |
| Overload Protection | 1000 VDC or 750 VACrms* |
| AC Volts (50 Hz-500 Hz) | |
| Ranges | 200 mV, 2000 mV, 20 V, 200 V 750 V |
| Resolution | 0.1 mV, 1 mV, 10 mV, 100 mV, 1 V |
| Accuracy | 200 mV & 20 V ranges: ±(1.2 % rdg + 5 dgts) 200 V & 750 V ranges: ±(2.0 % rdg + 5 dgts) |
| Input Impedance | 10 MΩ |
| Overload Protection | 1000 VDC or 750 VACrms* |

| | |
|---|---|
| DC Current | |
| Ranges | 200 uA, 20 mA, 200 mA |
| Resolution | 0.1 uA, 10 uA, 100 uA |
| Accuracy | ±(1.0% rdg + 1 dgts) |
| Input Protection | 0.25 A/500 V fast blow ceramic fuse |
| AC Current (50 Hz-500 Hz) | |
| Ranges | 200 uA, 20 mA, 200 mA |
| Resolution | 0.1 uA, 10 uA, 100 uA |
| Accuracy | ±(1.5% rdg + 5 dgts) |
| Input Protection | 0.25 A/500 V fast blow ceramic fuse |
| 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: ±(1.0 % rdg + 4 dgts) 20MΩ range: ±(2.0 % rdg + 4 dgts) |
| Open Circuit Voltage (typical) | 0.3 VDC (3.0 VDC on 200 Ω) |
| Overload Protection | 500 VDC/ACrms |
| Capacitance | |
| Ranges | 200 uF, 2 mF, 20 mF |
| Resolution | 0.1 uF, 1.0 uF, 10 uF |
| Accuracy | ±(4 % rdg + 10 dgts) |
| Overload Protection | 0.25 A/500 V fast blow ceramic fuse |
| Frequency | |
| Ranges | 10 Hz to 40 kHz |
| Resolution | 1 Hz |
| Accuracy | ±(0.1 % rdg + 3 dgts) |
| Sensitivity | 3.5 Vrms minimum |
| Overload Protection | 500 VDC/AC rms |
| Diode Test | |
| Test Current | 1.0 mA (typical) |
| Resolution | 10 mV |
| Accuracy | ±(1.5 % rdg + 3 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 |
| Temperature | |
| Ranges | -35°C to 750°C, -30°F to 1400°F |
| Resolution | 0.1°C, 0.1°F |
| Accuracy | 0°C to 400°C ±(1.0 % rdg + 1°C) -35°C to 0°C, 400°C to 750°C ±(3.0 % rdg + 3°C) -4°F to 750°F ±(1.0 % rdg + 2°F) -30°F to -4°F, 750°F to 1400°F ±(3.0 % rdg + 6°F) |
| Sensor Type | K-type thermocouple |
| Overload Protection | 60 VDC or 30 VACrms |
| 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 (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), one K-type thermocouple and instruction manual | |

* = 600 VDC/ACrms for 15 seconds on 200 mV range

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

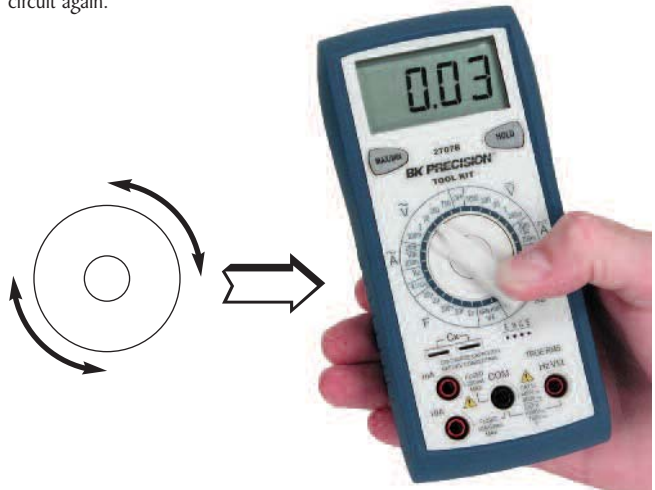
Model 2709B



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 | | | | | | | |
|-------------------|-------------|--------------|-------------|------------|--------------|-------------|------------|---------|
| | 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 66,000 uF | - | to 20 uF | to 20 mF | - | to 20 uF | - |
| Transistor Test | - | - | - | √ | - | - | √ | - |
| Frequency Counter | to 500 kHz | to 66 MHz | - | √ | to 40 kHz | - | √ | - |
| Temperature | - | - | - | - | √ | - | - | - |
| Logic Probe | - | - | - | √ | - | - | √ | - |
| Backlight LCD | √ | √ | - | - | √ | - | - | - |
| Analog Bar Graph | √ | - | √ | - | - | - | - | - |
| Battery Test | - | - | - | - | - | - | - | √ |
| Auto Power off | √ | √ | √ | - | √ | √ | - | - |