

**BK PRECISION®**

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## **Instruction Manual**

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**Model 3003**  
**10 MHz HANDHELD SIGNAL GENERATOR**



## SAFETY GUIDELINES

### WARNING

An electrical current of over 10 milliamps passing through the heart will stop most human hearts. Voltage of as low as 35Volts dc or ac rms should be considered hazardous since it can produce lethal current under certain conditions. Be sure to observe the following safety precautions:

1. There are no high voltages in the signal generator, but the equipment under test usually contains hazardous high voltage. Always follow the safety recommendations of the manufacturer of your equipment.
2. Some equipment may be wired as a "hot chassis" type; equipment using two-wire power plugs are always suspect and it may even include those with polarized plugs. Never touch chassis of "hot chassis" type equipment to avoid the possibility of a serious, possibly fatal electrical shock.
3. Don't expose yourself needlessly to high voltage; only remove housings and covers when necessary.
4. Familiarize yourself with the equipment being tested and the location of its high voltage points. However be aware that high voltage may appear at unexpected points in defective equipment.
5. Never work alone. Someone should be nearby to render aid if needed. Training in CPR (Cardio-pulmonary resuscitation) is highly recommended.

## Service Information

**Contact B&K Precision to receive a repair Return Authorization tracking number.** This number must be clearly written on the exterior of the shipping carton and will assist us with the processing of your return. Return all merchandise to B&K Precision Corp. with pre-paid shipping. The flat-rate repair charge includes return shipping to locations in North America. For overnight shipments and non-North America shipping fees contact B&K Precision Corp.

**Warranty Service:** Please return the product in the original packaging with proof of purchase to the below address. Clearly state in writing the performance problem and return any leads, connectors and accessories that you are using with the device.

**Non-Warranty Service:** Return the product in the original packaging to the below address. Clearly state in writing the performance problem and return any leads, connectors and accessories that you are using with the device. Customers not on open account must include payment in the form of a money order or credit card. For the most current repair charges contact the factory before shipping the product.

B&K Precision Corp.  
22820 Savi Ranch Parkway  
Yorba Linda, CA 92887  
Phone: 714-921-9095  
Facsimile: 714-921-6422

Include with the instrument your complete return shipping address, contact name, phone number and description of problem.

# 10 MHz SIGNAL GENERATOR

## Introduction:

The Model 3003 signal generator is a cost-effective signal source. Its architecture is based on the latest advances in DDS (direct-digital synthesizer) technology. Microprocessor control delivers clean and accurate **DC to 10MHz** waveforms with **frequency accuracy of 0.02% and 0.1 Hz frequency resolution**. User-friendly features include eight push wheel switches which enable the user to quickly and easily set the frequency. The unit also has following features.

- ◆ Produces sine and square waves.
- ◆ Variable amplitude control for sine wave.
- ◆ Standard BNC connectors for sine and square waves.
- ◆ An adapter power source or one 9V battery.
- ◆ Low battery indicator.

## SPECIFICATIONS

### Frequency Characteristics

Waveforms	Sine, Square
Range	DC to 9.9999999MHz 0.1Hz steps
Accuracy	0.02% (Under 100Hz accuracy is not specified)

### Sine Wave

Output	0 – 4.5Vp-p (no load) Variable amplitude control
Output impedance	50 ohms

### Square Wave

Output	5Vp-p (no load)
Duty Cycle	50% typical
Output impedance	50 ohms

<b>Power</b>	An external AC adapter (6V - 9V DC 150mA 5.5mm x 2.1mm center pin+) or one 9V battery
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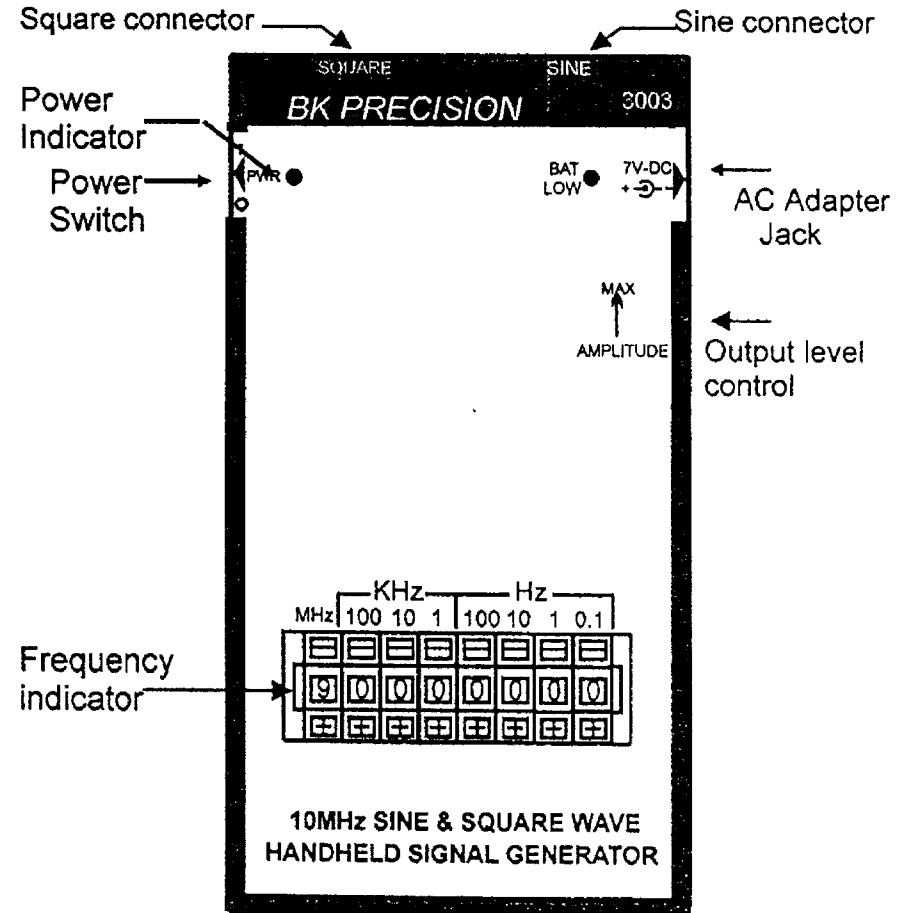
<b>Dimensions</b>	2.1" x 3.6" x 6.0"
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## Controls and Indicators

1. **Power Switch** – Power on or off
2. **Power Indicator** – LED to show when power is on.
3. **Frequency indicator** – The eight push wheel switches indicate the frequency that output on the sine and square waves jacks.
4. **Output level control** – Controls the amplitude of the sine wave at output jack.
5. **Sine connector** – Sine wave output at this jack.
6. **Square connector** – Square wave output at this jack.
7. **Bat Low** – Indicates battery condition.
8. **AC Adapter Jack** – (6.5V – 9V) DC, 150mA center pin + adapter input.

## HANDHELD SIGNAL GENERATOR

### MODEL 3003



## **OPERATION:**

1. Turn the unit on and select the desired frequency of the waveform by pushing the eight push wheel switches.
2. Adjust the amplitude of the output as desired using the output level control (affects sine wave output jack only).
3. Connect the generator output to desired test points.

## **CAUTION:**

The signal generator output should never be connected to a signal injection point. Excessive voltage at the point of signal injection of the signal generator can cause internal damage.



### Limited One-Year Warranty

B&K Precision Corp. warrants to the original purchaser that its product and the component parts thereof, will be free from defects in workmanship and materials for a period of one year from the date of purchase.

B&K Precision Corp. will, without charge, repair or replace, at its' option, defective product or component parts. Returned product must be accompanied by proof of the purchase date in the form a sales receipt.

To obtain warranty coverage in the U.S.A., this product must be registered by completing and mailing the enclosed warranty card to B&K Precision Corp., 22820 Savi Ranch Parkway, Yorba Linda, CA 92887 within fifteen (15) days from proof of purchase.

**Exclusions:** This warranty does not apply in the event of misuse or abuse of the product or as a result of unauthorized alternations or repairs. It is void if the serial number is alternated, defaced or removed.

B&K Precision Corp. shall not be liable for any consequential damages, including without limitation damages resulting from loss of use. Some states do not allow limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights and you may have other rights, which vary from state-to-state.

Model Number: \_\_\_\_\_ Date Purchased: \_\_\_\_\_

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### OTHER TEST & MEASUREMENT PRODUCTS AVAILABLE FROM B&K PRECISION

B & K Precision offer many different types of electronic test equipment to suit your needs. Below is a list of the different product categories of test equipment we offer.

High-Performance Oscilloscopes  
Oscilloscope Accessories  
High Performance Multimeters  
Handheld Digital Multimeters  
Bench Top Digital Multimeter  
Digital Multimeter Accessories  
Power Supplies  
Function Generators  
Frequency Counters  
Spectrum Analyzers

Universal Device Programmers  
Insulation Testers  
Digital Thermometers  
Capacitance & Semiconductor testers  
Component Testers  
LCR Meters  
Telephone Product Testers  
Video Testers  
CRT Tester/Restorer & analyzers

For more information on these products please contact B&K Precision for your local distributor or to request literature. You can contact us at:

**B&K Precision Corp. 22820 Savi Ranch Parkway • Yorba Linda CA,  
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**PHONE (714)- 921-9095 • FAX (714)- 921-6422  
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