

## LABORATORY 2

### HOW TO USE AN OSCILLOSCOPE AND FUNCTION GENERATOR

#### OBJECTIVES

1. To interpret specifications for function generators.
2. To learn the operational controls of function generators.
3. To explain the concepts relating to grounding of oscilloscopes.
4. To produce a waveform on an oscilloscope graticule.
5. To analyze the effects of manipulating various typical oscilloscope controls.
6. To manipulate a waveform so as to optimize its appearance.
7. To evaluate a variety of basic oscilloscope waveforms.
8. To operate vertically-related oscilloscope controls.
9. To operate typical horizontally-related oscilloscope controls.

#### INFORMATION

*Note: Actual lab procedure follows this information section.*

##### 1. Function generator

The Wavetek model FG3B Sweep/Function Generator is a precise low distortion instrument, capable of generating sine waves, triangular waves, square waves and ramp signals in the 0.2Hz to 2.0 MHz frequency range. The front panel of the FG3B is shown in Figure 2.1. The main features are shown in Figure 2.2 and explained in Table 2.1.



**Figure 2.1** Front panel of Wavetek FG3B function generator.

A typical waveform generator is a non-ideal ac voltage source, and is represented symbolically as shown in Figure 2.3. The red lead of the generator's terminal connector is an active output and the black lead is connected to the common ground.

# Function Generator Manual

**Michael Rajnik**



## **Function Generator Manual:**

**Function Generator GFG-8210** GW INSTEK.,2000\* **Model 401A Programmable Function Generator** OR-X Ltd,1989 **Manuals Combined: Over 300 U.S. Army Operator and Calibration Manuals For The Multimeter, Oscilloscope, Voltmeter, Microwave Pulse Counter, Gage, Caliper & Calibrator** , Well over 9 000 Total Pages Just a SAMPLE of what is included CALIBRATION PROCEDURE FOR DIAL INDICATING PRESSURE GAGES CALIBRATION PROCEDURE FOR VERNIER CALIPERS TYPE 1 CLASSES 1 2 3 7 Pages CALIBRATION PROCEDURE FOR TORQUE WRENCH RAYMOND ENGINEERING I MODEL PD 730 8 Pages CALIBRATION PROCEDURE FOR TORQUE WRENCHES AND TORQUE SCREWDRIVE GENERAL CALIBRATION PROCEDURE FOR PYROMETER AND THERMOCOUPLE TESTER TYPE N 3A CALIBRATION PROCEDURES FOR HYDRAULIC ACTUATOR TEST STAND BARKL AND DEXTER MDL BDL 812121 CALIBRATION PROCEDURE FOR VIBRATION MONITORING KIT CONSOLIDATED ELECTRODYNAMICS TYPE 1 117 CALIBRATION PROCEDURE FOR VIBREX BALANCE KIT MODEL B4591 CONSI OF VIBREX TESTER MODEL 11 BLADE TRACKER MODEL 135M 11 AND BA PHAZOR MODEL 177M 6A CALIBRATION PROCEDURE FOR FORCE TORQUE READOUT MIS 38934 TYPE I AND TYPE II CALIBRATION PROCEDURE FOR STRAIN GAGE SIMULATOR ARREL ENTERPRISES MODEL SGS 300 CALIBRATION PROCEDURE FOR PRESSURE GAGES DIFFERENTIAL GENERAL CALIBRATION PROCEDURE FOR FUEL QUANTITY SYSTEM TEST SET SIMMONDS PRECISION JC AIR MODEL PSD 60 1AF CALIBRATION PROCEDURE FOR OPTICAL POWER TEST SET TS 4358 G CALIBRATION PROCEDURE FOR PROTRACTOR BLADE MODEL PE 105 CALIBRATION PROCEDURE FOR GAGE HEIGHT VERNIER MODEL 454 CALIBRATION PROCEDURE FOR CYLINDER GAGE MODEL 452 CALIBRATION PROCEDURE FOR GAGE BLOCKS GRADES 1 2 AND 3 CALIBRATION PROCEDURE FOR MICROMETERS INSIDE 13 CALIBRATION PROCEDURE FOR DIAL INDICATORS CALIBRATION PROCEDURE FOR GAGES SPRING TENSION CALIBRATION PROCEDURE FOR FORCE MEASURING SYSTEM EMERY MODEL S 19 CALIBRATION PROCEDURE FOR PRECISION RTD THERMOMETER AZONIX MOD W TEMPERATURE PROBE INSTRULAB MODEL 4101 10X PLUS VOLTAGE CALIBRATOR JOHN FLUKE MODELS 332B AF AND 332B D NSN 6625 00 150 6994 CALIBRATION PROCEDURE FOR VOLTAGE CALIBRATOR BALLANTINE MODELS 420 421A AND 421A S2 CALIBRATION PROCEDURE FOR CALIBRATOR AN USM 317 SG 836 USM 317 AND HEWLETT PACKARD MODEL 8402B CALIBRATOR SET RANGE AN USM 115 FSN 6625 987 9612 24X MICROFICHE RANGE CALIBRATOR SET AN UPM 11 MAGNETIC COMPASS CALIBRATOR SET AN ASM AND MAGNETIC COMPASS CALIBRATOR SET ADAPTER KIT MK 1040A ASN CALIBRATOR CRYSTAL TS 810 U CALIBRATOR POWER METER HEWLETT PACKARD MODEL 8402B NSN 6625 00 702 0177 PEAK POWER CALIBRATOR HEWLETT PACKARD MODEL 8900B NSN 4931 00 130 5386 APN MIS 10243 MAGNETIC COMPASS CALIBRATOR SET AN ASM 339 V 1 NSN 6605 00 78 AND ADAPTER KIT MAGNETIC COMPASS CALIBRATOR SET MK 1040 ASN 6605 00 816 0329 24X MICROFICHE MAGNETIC COMPASS

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