

GENERAL RADIO COMPANY

TYPE 403 STANDARD-SIGNAL GENERATOR



A generator of known radio-frequency voltage has a number of applications in the testing of receivers and in the measurement of field strength by comparison methods. The generator should be variable in voltage over a wide range, and so thoroughly shielded that no external field is set up. The Type 403 Standard-Signal Generator has a range of 1 to 200,000 microvolts, which is sufficient for measurement of the most sensitive type of receiver now available.

The Type 403 Standard-Signal Generator consists of a radio-frequency oscillator with fixed frequency modulation by means of a self-contained audio oscillator, and a calibrated attenuator.

In addition to the tests of receiver-gain measurements, the signal generator may be used for field-strength measurement by comparison methods, for gain measurements on radio-frequency amplifiers, for measurement of detector characteristics, and of the combined characteristics of detector and audio amplifier.

The Type 403 Standard-Signal Generator is designed for use with external unshielded batteries, and external modulation where variable frequency modulation is desired for fidelity tests. To this end the leads to the battery terminals and to the external modulation terminals are equipped with filters which confine the radio frequency entirely within the instrument. The leads to the meters on the panel are also filtered, eliminating