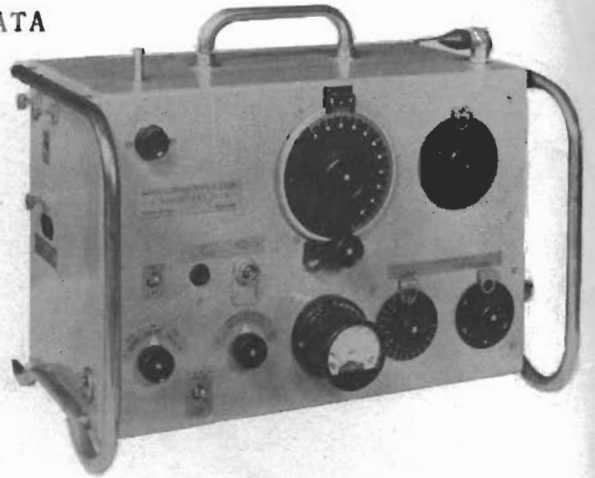


WAVEMETER OUTFIT GN

SUMMARY OF DATA



WAVEMETER G73

PURPOSE

A wavemeter outfit used as:-

- (i) Portable heterodyne wavemeter.
- (ii) Signal Generator for receiver Units.
- (iii) Audio frequency test oscillator.

FREQUENCY RANGE

100 kc/s to 25,000 kc/s in six ranges.

MAJOR UNITS

Wavemeter Outfit GN comprises principally Patt. W2508 Wavemeter G73. Patt. W3988 Oscillator G42 is fitted inside the Wavemeter.

PHYSICAL DATA

	Height	Width	Depth	Weight
Patt. W2508 Wavemeter G73	11"	16½"	11"	35½ lb
Patt. W3988 Oscillator G42	7"	3½"	2½"	2½ lb

BRIEF DESCRIPTION

Wavemeter G73 is a portable wavemeter and may be used:-

- (i) As a C.W. or M.C.W. local oscillator for setting a receiver to a desired frequency.
- (ii) As a heterodyne wavemeter in conjunction with a receiver to measure the frequency of an incoming signal.
- (iii) As a heterodyne wavemeter to measure the frequency of a local transmitter.
- (iv) As a heterodyne oscillator for transforming to a receiver, or transmitter an exact frequency obtained from Oscillator G35, Wavemeter G61 or G62.
- (v) For supplying a modulated or CW R.F. signal of known magnitude for receiver measurements and tests.
- (vi) For supplying a 400 cycle voltage to audio frequency amplifiers for test purposes.

Wavemeter G73 has an accuracy of the order $\pm 0.2\%$ using Oscillator G42 check points. The output is 1 - 100,000 microvolts controlled by an attenuator, and also a fixed 400 cycle output of 2 volts into 600 ohm.

Oscillator G42 which is fitted inside Wavemeter G73 is a crystal controlled oscillator and provides a means of checking the calibration of Wavemeter G73 when a standard wavemeter outfit is not available. It operates at a frequency of 1000 kc/s. A set of charts is provided for calibration of beat frequencies between the harmonics of the oscillator and wavemeter frequencies.

POWER REQUIREMENTS AND CONSUMPTION

- (i) 230 volts or 115 volts 50/60 cycle single phase 10 watts
- or (ii) 100 volts 3 mA and 1.2 amps at 6 volts supplied from three Patt. 6706 accumulators and one Patt. 3774A battery.

HANDBOOK

BR.1381

ESTABLISHMENT LIST

E.588

INSTALLATION SPECIFICATION

B.546