

Inter-Services Designation - Test Oscillator, 0-16 000 c/s

SUMMARY OF DATA

PURPOSE

An audio-frequency oscillator (beat-frequency type) covering 0 - 16 000 c/s. Output voltage is continuously variable 0 - 17.5V r.m.s. Used as a general frequency source for testing A.M. receivers, A.F. amplifiers, calibration of oscilloscope time bases in time, frequency checking by oscilloscope etc.

DESCRIPTION

The instrument consists of two valve oscillators whose outputs are amplified and applied to an anode-bend mixer, the difference frequency being amplified and fed to output terminals across which an external 600 ohm resistor is connected. The output voltage measured by an A.C. voltmeter incorporated in the instrument. Panel adjustments are provided for setting the beat-frequency to zero; the meter may be switched into the anode-bend detector anode circuit for accurate zero setting.



A.P. W7252 OSCILLATOR G205

PERFORMANCE

Two dials are provided (L.F. and H.F. scales)

L.F. Scale:- 0 - 600 c/s (lowest calibration 20 c/s)

H.F. Scale:- 0 - 16 000 c/s (lowest calibration 250 c/s)

Frequencies between marks on H.F. scale are obtainable by the use of both scales, the frequency being the difference between these scale readings.

Output voltage:- 0 - 17.5V r.m.s. (approx.)

Output Power (Max.): - 0.5 watt (approx); 600 ohm resistor is connected across output terminals.

Accuracy:- Calibration accuracy is 1% or 2 c/s whichever is the greater. Frequency stability is about 3 c/s per hour after warming-up. Output remains constant to within ± 2 db from 50 - 16 000 c/s.

Harmonic distortion:- Less than 1% at full output.

POWER REQUIREMENTS AND CONSUMPTION

Power Supply:- 200 - 215V, 220 - 230V or 240 - 250V 50 c/s. Note:- some models are designed for 230V supply only.

Power Consumption:- 55 watts (approx.)

PHYSICAL DATA

Weight - 30 lb
 Height - 12½ in
 Width - 17½ in
 Depth - 9 in

REMARKS

This instrument is supplied as part of Testing Outfits TKA, TKD-TKG.

OTHER SERVICE AND COMMERCIAL DESIGNATIONS

Inter-Services:- Test Oscillator, 0 - 16 000 c/s.

Commercial:- B.S.R. Type LO.50A (or LO.50B) Oscillator.

HANDBOOK

B.R. 1771(2)

ESTABLISHMENT LIST

E1015

PRODUCTION SPECIFICATION

11732.