

(Joint-Services Designation - Oscilloscope Type 13A)

SUMMARY OF DATA

PURPOSE

Investigation of waveform displays and monitoring of radar and radio equipment generally.

DESCRIPTION

General-purpose twin beam monitor and oscilloscope which may be used for the examination of waveforms within the recurrence frequencies of 2 c/s to 10 Mc/s.

PERFORMANCE

TIME BASE Free running recurrence frequencies 2 c/s to 750 kc/s. Sweep time variable from 1 μ sec. to 400 msec. Trigger from positive or negative wavefront of pulses of 30V amplitude or more.

TRACE LENGTH Between 6.5 and 7 cm.

CALIBRATOR Internal calibrator gives 1 μ sec. or 10 μ sec. marker pips.

ATTENUATOR Accuracy $\pm 10\%$ at low frequency, $\pm 20\%$ at high frequency. Steps divide by 2, 4, 6, 8, 16 on Y2 plate.

AMPLIFIER (a) Y1 and Y2 amplifiers separate, gain approximately 28.5 dB, flat within ± 3.5 dB and 7 dB respectively, over frequency range 50 c/s to 1 Mc/s.

(b) Cascade amplifiers to Y1 providing a gain of approximately 57.5 dB, flat within ± 7 dB over range 50 c/s to 1 Mc/s.

(c) Cascade amplifiers, H.F. compensated with gain of approximately 35.5 dB; flat within ± 1 dB over range 50 c/s to 1 Mc/s.

PROBE Cathode follower with switched output to amplifier and tube plates.

X AMPLIFIER Optional, approximate gain 29.5 dB flat to within ± 8 dB over frequency range 50 c/s to 500 kc/s.

PHYSICAL DATA

Depth 24" Width 10"
Height 15" Weight 75 lb.

POWER

REQUIREMENTS

115 or 230V 45-60 c/s
Consumption 160W

OTHER SERVICE OR COMMERCIAL DESIGNATION

Air Ministry: 10S/831.

REMARKS

To replace Cossor D.B. Oscilloscope A.P.3336A.

HANDBOOK

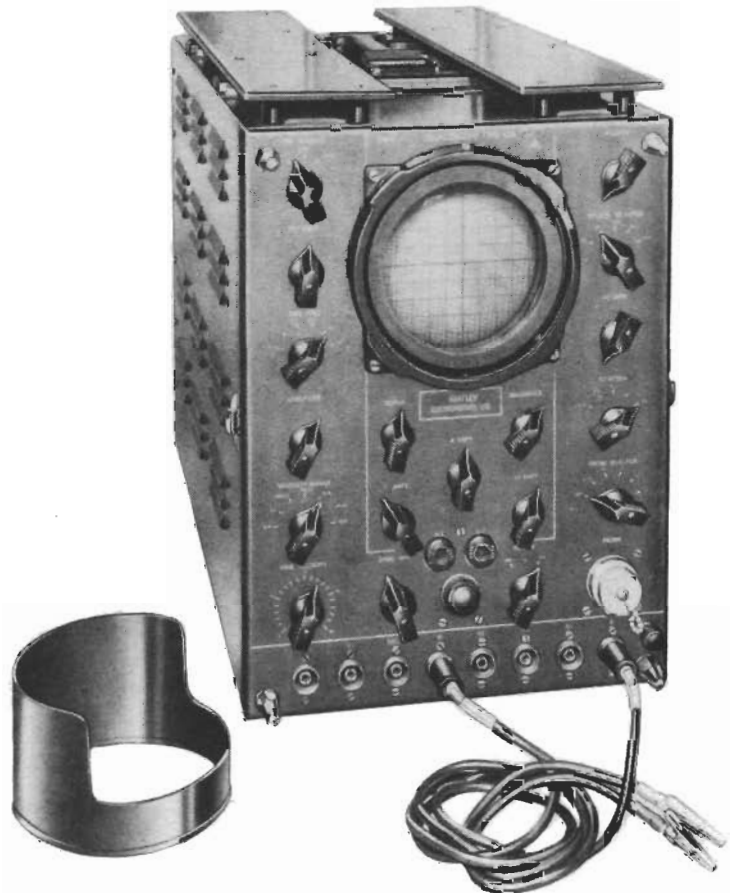
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ESTABLISHMENT LIST

E.1015

PRODUCTION SPECIFICATION

None.



A.M. REF. 10S/831 OSCILLOSCOPE TYPE 13A