

*Wavemeter Class B No. 1* is comprised of Naval type Wavemeter G61 and Oscillator G35. It is powered by Wireless Set No. 11 Supply Unit Low Power No. 1

## Wavemeter Class A and B

### DATA SUMMARY

**Purpose:** Precision instrument for accurate measurements of frequency and calibration of wavemeters, transmitters and receivers

**Year of introduction:** 1937/38 (Class A), 1938/39 (Class B Nos. 1 and 2), 1941 (Class B Mk.II)

**Frequency Coverage:** Wavemeter Class B No. 1: 1MHz to 25MHz in 5 ranges  
 Wavemeter Class B No. 2: 15kHz to 2.5MHz in 8 ranges  
 Wavemeter Class B Mk.II No. 1: 0.97 to 20.4MHz in 4 ranges  
 Wavemeter Class B Mk.II No. 2: 50kHz to 1MHz

**Power Supply:** Wavemeter Class B Nos. 1 and 2: Two 6V 80Ah accumulators and Wireless Set No. 11 Supply Unit Low Power No. 1.

Wavemeter Class B Mk.II No.1 and No. 2: Two 6V 85Ah accumulators and Unit HT No. 3

**Accuracy:**

Wavemeter Class B No. 1:  $\pm 1$  kHz

Wavemeter Class B No. 2:  $\pm 0.1$  kHz

Wavemeter Class B Mk.II No. 1 and No. 2:  $\pm 0.001\%$  (depending on range and station arrangement)

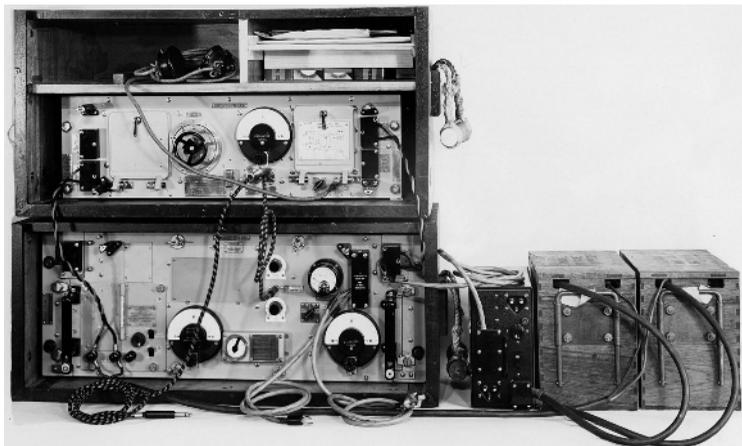
**Valves:** Wavemeter Class B No. 1 and No. 2: 11x NR48, NR49

Wavemeter Class B Mk.II No. 1 and No. 2: 3x ARP15, 3x ARP24, ARP2, 2x ARP14, AW1, 4x AR16

**Note:** *Wavemeter Class A*, previously referred to as Wavemeter Sub-Standard was an instrument to be used under laboratory conditions. One was kept at S.E.E. and a second with C.I.E.S.S. It is noted that these instruments were obtained from the trade in about 1937/38. General specifications, type number and maker are not known. Wavemeter Class A replaced heterodyne Sub-Standard Wavemeter Outfit 62-3000kHz, developed in the late 1920s

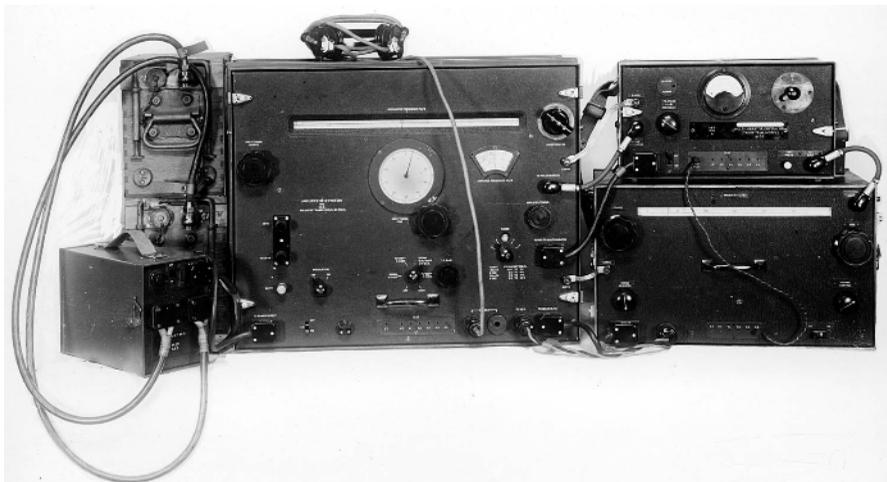
*Wavemeter Class B* was at the time an instrument of the greatest accuracy obtainable in a portable field type. It was intended to be used with fixed stations or with mobile stations performing fixed station duties, in R.A.O.C. workshops, at GHQ and at Headquarters of formations. During the early stages of development it appeared that Wavemeter Outfit GH/GL, already under development by the Admiralty, seemed suitable for this purpose and meeting the Army specifications. In 1937 tests with experimental models were carried out by S.E.E. resulting in the adaptation of this equipment. The Wavemeter Outfit GH/GL consisted of the Wavemeters G61 and G62.

The G61 originally covered the frequency band 2MHz to 23MHz and the G62 the frequency band 15kHz to 2.5MHz. The slightly altered equipment was later fitted with a crystal oven developed by the Army and boxed for Army use. Wavemeter Class B No. 1 was a modified Admiralty Wavemeter G61 covering 1MHz to 25MHz. Wavemeter Class B No. 2 which covered 15kHz to 2.5MHz used an Admiralty Wavemeter G62



*Wavemeter Class B No. 2 (left) is comprised of Admiralty Wavemeter G62 and Oscillator G35. It is powered by two 6V accumulators and a Wireless Set No. 11 Supply Unit Low Power No. 1*

*Wavemeter Class B Mk.II No. 1 and Wavemeter Class B Mk.II No. 2* were introduced after 1941, replacing the earlier Class B models. The Mk.II wavemeters were issued in different station arrangements on the required accuracy and purpose. In 1945 these instruments were re-designated Wavemeter Class B No. 10 Mks.I and II



Wavemeter Class B Mk.II No. 1 (complete station) comprises Amplifier Selector No. 1 (large unit in the centre), Multivibrator Crystal No. 1 (unit at top right) and Oscillator Beat Frequency No. 4 (unit bottom right) together with Unit HT No. 3 (bottom left)