Polish Test Set

Country of origin: England

DATA SUMMARY

Organisation: Polish Home Army (Armia Krajowa); SOE.

Design/Manufacturer: Polish Wireless Research Unit, Stanmore, England.

Year of Introduction: Probably 1942 or later.

Purpose: Testing and servicing of receivers and transmitters by resistance groups.

Circuit Features: Signal generator with (internal) modulator, variable attenuator, AF output meter, RF dummy load, relative RF output meter, and modulation monitor.

Frequency Coverage (signal generator): 440kHz-1400kHz, 1.4-4.5MHz, 4.5-15MHz.

Valves: 2 of unknown type.

Power Supply: 120V or 220V AC.

Size (cm): Height 7, length 25, width 30.

Remarks

This miniature test set was developed by the Polish Wireless Research Unit in England for testing, alignment and fault finding in receivers and transmitters. It comprised a signal generator with internal modulation and variable output attenuation, an AF output meter, a transmitter dummy load with relative RF output indication on a meter, and a modulation monitor.

The functions and choice of power input voltages may indicate that these test sets were most likely developed for use by resistance groups for servicing their radios.

Used in its construction were the metal case, with a slightly different hinged lid, and parts of the BP3 and BP4 (particularly the signal generator frequency tuning and fine control adjustment). Little is known of this Polish test set and it may be speculated that only a very few were built.

References:

Photos of a Polish test set were taken from a surviving example held in the collection of the Royal Signals Museum, Blandford Forum, U.K.

General view (left) and internal view (above) of the Polish test set. Note that the RF oscillator section and attenuator of the signal generator were enclosed in two fully screened compartments (box at right and cylinder in the centre). The five large resistors (to be seen on top left) were part of the transmitter dummy load.