

S-50B-S  
Country of origin: Poland

**DATA SUMMARY**

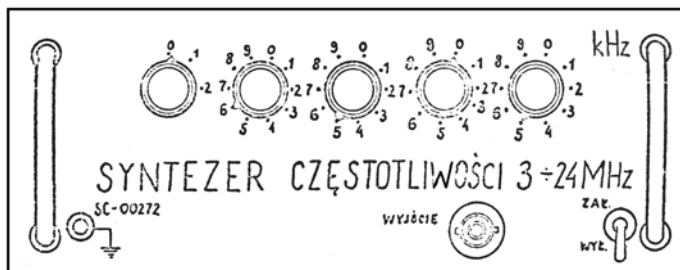
**Organisation:** 2<sup>nd</sup> directorate of the General Staff of the Polish Armed Forces.  
**Design/Manufacturer:** Experimental Department at the Military Institute of Communications, Warsaw.  
**Year of Introduction:** Developed 1970/71.  
**Purpose:** Military intelligence, agents.  
**Transmitter:**  
**Frequency coverage:** 3.5-14 MHz in two ranges: 3.5-7 and 7-14MHz. Crystal control or separate synthesiser unit. Hand speed or high speed CW.  
**RF output:** 25W.  
**Valves:** ECF82, EL90, 6146A.  
**Aerials:** Wire and counterpoise.  
**Power Supply:** Separate 12V DC or 110/220V AC mains power units.  
**Dimensions:** Height 4.9, length 12, width 16.9 ( S-50B).

**REMARKS**

The S-50B-S was a radio station used by agents and probably other agencies, operating on short wave. The set comprised 6 units: transmitter S-50B, AC mains power unit, 12V DC power unit, synthesiser unit, Philips EL 3302 compact cassette recorder (used as high speed keyer) along with the associated high speed keyer interface PMS. Preparing compact cassettes was done with a separate high speed Morse encoder unit Type HNK which was also used with the ELK-S described in Chapter 279. A separate receiver was used, model KF, mentioned in the operating instructions. Developed between 1970/71, the S-50B transmitter was much later used in a suitcase version along with most likely the same type of synthesiser, and an unknown Morse keyer (See Chapter 269).



Front panel view of the S-50B transmitter unit.



Front panel view of synthesiser unit. It is most likely the same type of synthesiser used with the ELK-S and Polish suitcase transmitter, depicted in Chapters 279 and 269.

**References:**

- Information, translations, operating instructions scans, research kindly provided by Bogdan Skudlarek, SP3LD, Poland with many thanks.
- From the library of the former military security agencies of the Polish State (Military Internal service and the Board of the 2<sup>nd</sup> General Staff of the Polish Army).
- Operating instructions IPN 415/146/PF 456/91, n.d.
- Instruction of the S-50B radio station, n.d.