



Keyer 32843 Country of origin: GDR

DATA SUMMARY

Organisation: Hauptverwaltung Aufklärung des MfS.
(HVA Ministry of Security)

Design/Manufacturer: OTS/unknown.

Year of Introduction: Estimated mid 1970's.

Purpose: Agents.

Coded output: Short form Morse, 300 or 600 Baud.

Memory capacity: 1500 numbers= 300 groups.

FSK output: 1200/1800Hz at 680mV, with a 0.85sec preamble of 2.4kHz keyed with 75Hz at 360mV.

DC Keying output: low= 0V; high= -5V.

Display: 16 digit LCD.

Keyboard: 16 buttons.

Major components: MSM 80C39 microprocessor, 2kbyte cmos-ram.

Power Supply: One 9 Volt battery.

Consumption: Off: 7µA, Stand-by 70µA, Active 35mA.

Size (cm): Height 3.8, Length 17.3, Width 9.1

Weight: 600g.

Accessories: Cable with 10 point plug connecting to the transmitter. A differently wired cable was required for connecting the earlier WSA 1 transmitter of the 32210 system.

REMARKS

Keyer 32843 was a high speed keyer which included control functions for use with the WSA 6 agents transmitter (part of system 32240, see chapter 101), also suitable for the earlier WSA 1 agents transmitter, part of system 32210 (see Chapters 40 and 58).

It had a memory capacity of 300 groups of five numbers in short form Morse with a speed of 300 or 600 Baud depending on the type of connected transmitter, designated by coding of the cable.

The keyer was comprised of three groups: Main board with micro-processor, ram, a/d converter and dc converter; Encoder board with keyboard and interface; 16 digit Display board. The three boards were enclosed in a metal case which included a 9 volt battery.

Stored data in the memory could be saved at least 500 hours. Considering earlier information (block diagram of the 32210 system and MfS documents) it is believed that the keyer 32843 was a further development of an earlier functionally similar keyer with a capacity of 100 five digit groups, primarily used with the WSA 1 transmitter. (See picture below)

The keying output for system 32240 (WSA 6 transmitter) was FSK audio 1200/1800Hz, and a 0.85sec preamble of 2.4kHz keyed with 75Hz, at a speed of 600Bd.

When used with the earlier system 32210, the associated WSA 1 transmitter was DC keyed with 300Bd without a preamble.

Functions of the 16 button keyboard were: reset, entering group number and 5-digit groups, corrections in groups, adding or deleting groups, preparing data for transmit, data transmit, delete of all data.



High speed keyer 32843 was principally used with transmitter WSA 6 of system 32240, here seen with an umbrella aerial and transit/storage containers.



WSA 1 transmitter and associated equipment of system 32210 included an unknown high speed keyer (bottom right), which could be substituted by keyer 32843.

References:

- Photographs, documents, scans and detailed information was kindly provided by Detlev Vreisleben, DC7KG, Germany.