

CLASSIFICATION **SECRET**  
SECURITY INFORMATION  
CENTRAL INTELLIGENCE AGENCY  
**INFORMATION REPORT**

REPORT

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COUNTRY East Germany  
SUBJECT Development of a Loop Galvanometer  
at Zeiss, Jena

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1. Development of a loop galvanometer, which was begun in the spring of 1953 in the Construction and Experimental Department (Konstruktions- und Versuchsabteilung)(Kov) of VEB Carl Zeiss, Jena, was successfully completed in August 1953. Two models are finished. The instrument was developed on the basis of preparatory research carried out by former Zeiss scientist Lechau (fmu), who died in 1945. Production of the device will begin in 1954.
2. The device consists of a container for the optics and a magnet case which can be revolved around a horizontal axis. The magnet case contains the loop holder, which can be replaced, and two permanent magnets. The following are the technical data on the device:
  - Interior resistance - about 7.5 ohms
  - Sensitivity - from two times ten power minus seven to five times ten power minus seven amperes per scale part (A/Skt). The highest sensitivity is obtained when the loop is in a vertical position.
3. Because of its small interior resistance and great sensitivity, the device can measure very weak thermocurrents.

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