

General Purpose of a Fluxmeter:

- A fluxmeter is an instrument used to measure magnetic flux. Magnetic flux is a measure of the total magnetic field that passes through a given area.
- These devices are crucial in various applications, including:
 - Testing and evaluating permanent magnets.
 - Analyzing magnetic circuits in electrical equipment.
 - Measuring the magnetic fields generated by coils and other devices.
 - Hysteresis loop tracing.

Key Features and Characteristics:

- **Measurement Units:**
 - Typically measures in Maxwell-turns.
- **Search Coils:**
 - Fluxmeters rely on search coils to detect magnetic fields. The induced voltage in the coil is proportional to the rate of change of magnetic flux.
 - Different coil designs are used for various measurement applications.
- **Integration:**
 - A key function of a fluxmeter is to integrate the voltage induced in the search coil, providing a measure of the total magnetic flux.
- **Display:**
 - Older models used analog meters, while modern versions utilize digital displays (LED).
- **Accuracy:**
 - Accuracy is a critical factor, often expressed as a percentage of full-scale reading.
- **Input Resistance:**
 - This is an important specification that affects the interaction between the fluxmeter and the search coil.
- **Applications:**
 - Used in the manufacturing and testing of:
 - Motors and generators.
 - Loudspeakers.
 - Magnetic components.
 - Magnetic shielding effectiveness testing.

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References:

1. https://dlaweb-dev.who.edu/repositories/2/archival_objects/1347

1. <https://www.sciencedirect.com/topics/engineering/fluxmeter>

1. <http://cy-sensors.com/Fluxmeter.htm>

