

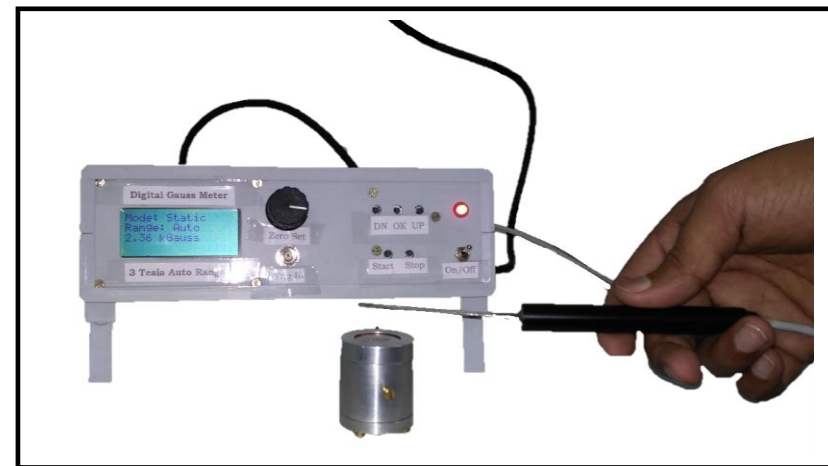
Name of the Technology: 3 Tesla Auto-Ranges Pulsed/Static Field Gauss Meter

Summary:

Gauss meters are widely used for the measurement of magnetic field in various domains such as educational institutions, research and industries. It is an improved magnetic field measuring instrument developed by CSIR-NPL having auto-range facility. It is capable to measure the static (stable) as well as dynamic pulsed (short duration) magnetic field. The system provides calibration facility supported by a suitable software.

Product specifications:

- Measurement Range: 3 Tesla (30 k Gauss)
- Mode of Operation: both Static and Pulse
- Selectable Ranges: 300G, 3kG, 30 kG and Auto
- Best Resolution: 0.1Gauss (at 300G)
- Front Panel Zero Adjustment
- Trigger in for pulse mode
- Software based Calibration Capability
- Selectable delay in pulse mode: 200 μ s step
- Display: 16x4 LCD



Applications:

1. Measurement of Static and Pulsed Magnetic Fields
2. Magnetic Field Measurements in Practical Experiments of Undergraduate and Postgraduate Courses.
3. Research Related to Magnetic Field
4. Use as Reference Standard for Calibration of Gauss Meters

Advantages over Conventional Gauss Meter:

- ❖ Auto-Range: No need to bother about field estimation and range.
- ❖ High Measurement Range: 3 Tesla
- ❖ Pulse Field Measurement
- ❖ Software Calibration Option



Readiness level of the Technology:

Idea	Concept Definition	Proof of Concept	Prototype	Lab Validation	Technology Development	Technology Demonstration	Technology Integrated	Market Launch

Related Patent: Non Patented

Year of Introduction: 2018,

Broad Area/Category: Electronics & Instrumentation