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: 200µs 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:

<table>
<thead>
<tr>
<th>Idea</th>
<th>Concept Definition</th>
<th>Proof of Concept</th>
<th>Prototype</th>
<th>Lab Validation</th>
<th>Technology Development</th>
<th>Technology Demonstration</th>
<th>Technology Integrated</th>
<th>Market Launch</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Related Patent:** Non Patented

**Year of Introduction:** 2018,

**Broad Area/Category:** Electronics & Instrumentation