ABB uses advanced technologies to accurately measure and control levels in storage and process equipment in ethanol plants around the world. Our proven level instrumentation measures both liquids and solids. Ethanol plants take advantage of ABB’s wide range of magnetic level gauges, continuous level transmitters, point level and caged level switches, and pressure, temperature and flow switches.

Legend

- **P**: Point Level measurement
- **C**: Continuous Level measurement
- **NC**: Non-Contact Level measurement
## Point Level Measurement

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
</tr>
</thead>
</table>
| RS85 Vibrating Level Switch | – Immune to low to medium coating or build-up on sensor  
– Robust sensing element  
– Field selectable parameters with external magnet or internal push buttons (fail safe, density)  
– Extended probe lengths to 120" (3048 mm) |
| TX Thermal Dispersion Switch | – One switch can be configured for either gas or liquid flow, liquid level, interface level or temperature  
– Explosion proof, no moving parts  
– Temperature range of -320°F to 900°F (-195°C to 482°C)  
– Pressure to 10,000 psig (689 bar)  
– 316L stainless steel all welded construction standard |
| KCAP300/400 RF Capacitance Level Switch | – Dry bulk solids and liquid level detection in silos and sumps  
– Measures liquids and bulk solids  
– Single Setpoint, dual setpoint and pump control  
– Wide variety of 2-element sensing probes available up to 450°F/3000 psig |

## Continuous Level Measurement

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
</tr>
</thead>
</table>
| MT5000/MT5100 Guided Wave Radar Transmitters | – Radar signals travel along the waveguide - eliminates false echoes  
– High signal strength with low power consumption  
– The MT5000 provides reliable level measurement over varied process conditions.  
– Distance 2 to 200 ft. (61 m)  
– True level measurement regardless of temperature and pressure changes |
## Non-Contact Level Measurement

<table>
<thead>
<tr>
<th>Product</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>LM80/LM200 Laser Level Transmitters</td>
<td>The LM80/LM200 lasers are robust laser transmitters that can accurately measure level, distance and position over long ranges in extreme environments.</td>
</tr>
<tr>
<td></td>
<td>LM80’s long range is to 200 ft./60 m</td>
</tr>
<tr>
<td></td>
<td>LM200’s long range is to 500 ft. / 150 m</td>
</tr>
<tr>
<td></td>
<td>No beam divergence = no false echoes</td>
</tr>
<tr>
<td></td>
<td>Measure surface at any angle with narrow beam</td>
</tr>
<tr>
<td>VM3D Volumetric Measurement for Silos</td>
<td>Volumetric measurement of bulk solid materials in silos and stock piles</td>
</tr>
<tr>
<td></td>
<td>3D surface profiling</td>
</tr>
<tr>
<td></td>
<td>Highly visible level indication</td>
</tr>
<tr>
<td>LST400 Ultrasonic Transmitter</td>
<td>Ore level measurement in bins and silos</td>
</tr>
<tr>
<td></td>
<td>Liquid level measurement in silos and sumps</td>
</tr>
<tr>
<td></td>
<td>Acids and other liquid level measurements</td>
</tr>
</tbody>
</table>
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