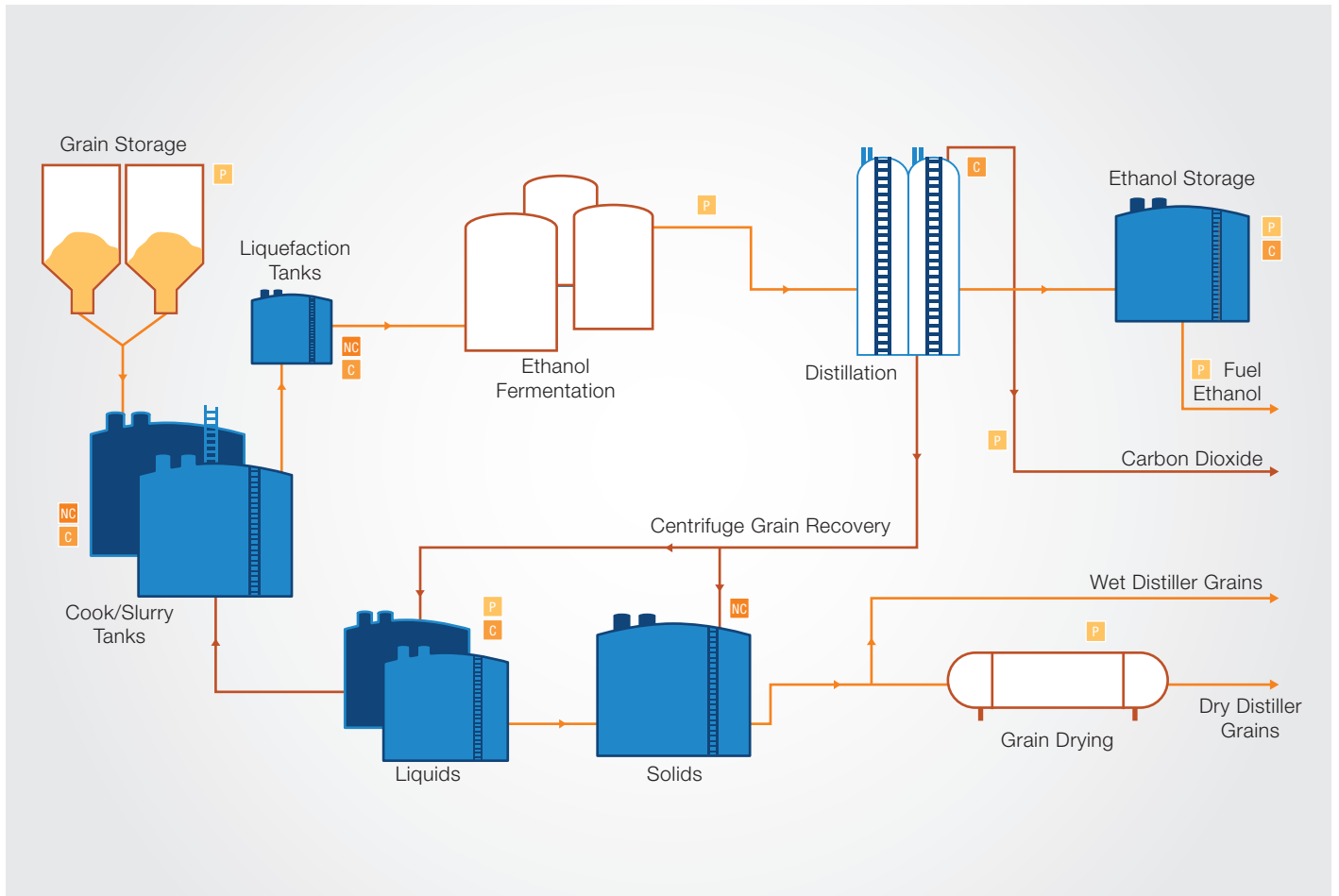


# Ethanol Plant

## Industry specific process diagram

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


P




Point Level Measurement

Product		Features
	RS85 Vibrating Level Switch	<ul style="list-style-type: none"> <li>- Immune to low to medium coating or build-up on sensor</li> <li>- Robust sensing element</li> <li>- Field selectable parameters with external magnet or internal push buttons (fail safe, density)</li> <li>- Extended probe lengths to 120" (3048 mm)</li> </ul>
	TX Thermal Dispersion Switch	<ul style="list-style-type: none"> <li>- One switch can be configured for either gas or liquid flow, liquid level, interface level or temperature</li> <li>- Explosion proof, no moving parts</li> <li>- Temperature range of -320°F to 900°F (-195°C to 482°C)</li> <li>- Pressure to 10,000 psig (689 bar)</li> <li>- 316L stainless steel all welded construction standard</li> </ul>
	KCAP300/400 RF Capacitance Level Switch	<ul style="list-style-type: none"> <li>- Dry bulk solids and liquid level detection in silos and sumps</li> <li>- Measures liquids and bulk solids</li> <li>- Single Setpoint, dual setpoint and pump control</li> <li>- Wide variety of 2-element sensing probes available up to 450°F/3000 psig</li> </ul>

C

Continuous Level Measurement

Product		Features
	MT5000/MT5100 Guided Wave Radar Transmitters	<ul style="list-style-type: none"> <li>- Radar signals travel along the waveguide - eliminates false echoes</li> <li>- High signal strength with low power consumption</li> <li>- The MT5000 provides reliable level measurement over varied process conditions.</li> <li>- Distance 2 to 200 ft. (61 m)</li> <li>- True level measurement regardless of temperature and pressure changes</li> </ul>

Product		Features
	<p>LM80/LM200 Laser Level Transmitters</p>	<ul style="list-style-type: none"> <li>- The LM80/LM200 lasers are robust laser transmitters that can accurately measure level, distance and position over long ranges in extreme environments.</li> <li>- LM80's long range is to 200 ft./60 m</li> <li>- LM200's long range is to 500 ft. / 150 m</li> <li>- No beam divergence = no false echoes</li> <li>- Measure surface at any angle with narrow beam</li> </ul>
	<p>VM3D Volumetric Measurement for Silos</p>	<ul style="list-style-type: none"> <li>- Volumetric measurement of bulk solid materials in silos and stock piles</li> <li>- 3D surface profiling</li> <li>- Highly visible level indication</li> </ul>
	<p>LST400 Ultrasonic Transmitter</p>	<ul style="list-style-type: none"> <li>- Ore level measurement in bins and silos</li> <li>- Liquid level measurement in silos and sumps</li> <li>- Acids and other liquid level measurements</li> </ul>

# Contact us

## ABB Inc.

18321 Swamp Road  
Prairieville, LA 70769 USA  
Phone: +1 225 673 6100  
Service: +1 225 677 5836  
Fax: +1 225 673 2525  
E-mail: quotes.ktek@us.abb.com  
Service e-mail: ktek-service@us.abb.com

## ABB Inc.

585, Boulevard Charest E., Suite 300  
Quebec, QC Canada G1K 9H4  
Phone: +1 418 877 2944  
Service: +1 800 858 3847  
Fax: +1 418 877 2834  
E-mail: qc\_rfq@ca.abb.com  
Service e-mail: laserscanner.support@ca.abb.com

## ABB Engineering (Shanghai) Ltd.

No. 5, Lane 369, Chuangye Road  
Kangqiao Town, Pudong District  
Shanghai, 201319, P.R. China  
Phone: +86 10 64231407  
Service: +86 21 61056421  
Fax: +86 10 64371913  
E-mail: shan.li@cn.abb.com  
Service e-mail: rola.li@cn.abb.com

## ABB Limited

Salterbeck Trading Estate  
Workington, Cumbria, England CA14 5DS  
Phone: +44 7885333752  
Service: +44 145 3826661  
E-mail: enquiries.mp.uk@gb.abb.com  
Service e-mail: abb.service@gb.abb.com

[www.abb.com/level](http://www.abb.com/level)

## Note

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents - in whole or in parts - is forbidden without prior written consent of ABB.

Copyright© 2014 ABB  
All rights reserved



Sales



Service