Fluke solutions can help you keep pace with today’s fuel consumption.

Ethanol manufacturing is a rapidly growing industry segment as usage of ethanol as a biofuel alternative to gasoline increases. As a renewable fuel source it is environmentally friendly and in demand worldwide. The potential for ethanol is tremendous.

Fluke makes rugged, reliable, quality tools ethanol professionals can count on when working on any part of the manufacturing process. We know that ethanol manufacturing is a tough, demanding chore. Fluke designs tools knowing the uniqueness of the ethanol manufacturing environment, the professionals who work there, and the challenges they face every day. Fluke tools give results you can count on all the time, whatever you’re doing.
**Plant Engineer**

**Issues faced:**
- Maximizing uptime
- Prevent system interruption
- Maintain plant and personnel safety

**Fluke solutions:**
- Fluke Connect
- Multifunction process calibrators
- Power quality analyzers
- Thermal imagers
- Vibration tester

**Electrician/Engineer**

**Issues faced:**
- Power quality
- Safe, high energy system maintenance
- Meeting safety standards
- Troubleshooting breakers, motors and switchgear

**Fluke solutions:**
- Fluke Connect
- Multifunction process calibrators
- Process test tools
- Digital multimeters
- Power quality analyzers
- Power loggers
- Clamp meters
- Insulation multimeters
- Electrical testers
- Thermal imagers
- Infrared window
- Vibration tester
- Alignment tools

**Fluke solutions for ethanol plants**

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Control Engineer

Issues faced:
- Process and system integration
- Safety systems testing
- Process interruption

Fluke solutions:
- Fluke Connect
- Multifunction process calibrators
- Process test tools
- Pressure gauges and calibrators
- Portable oscilloscopes

Plant Manager

Issues faced:
- Ensuring continuous uptime
- Controlling energy costs
- Maintaining good ROI on equipment
- Managing expenses

Fluke solutions:
- Fluke Connect
- Power quality analyzers
- Thermal imagers

Fluke offers a full line of solutions for ethanol professionals.
Go to www.fluke.com for detailed information on these and all Fluke products.
# Recommended ethanol plant solutions

## Thermal imagers
**Best suited for:**
- Inspecting pipes, motors and pumps
- Capturing fluid/solid levels on tanks and silos
- Inspecting boilers, process heaters and other heat-generating units
- Inspection of power distribution, fuse boxes, insulators, transformers and other electrical system components

## Power loggers
**Best suited for:**
- Capturing and logging over 500 power quality parameters
- Troubleshooting and performing advanced analysis on power quality issues
- Energy surveys to determine sources of electrical energy waste

## Digital multimeters
**Best suited for:**
- Electrical system installation and troubleshooting
- Quick voltage detection
- Environments with both AC and DC (autoVolt) or ghost voltages

## Fluke Connect
**Best suited for:**
- Simplifying preventive maintenance programs
- Seamlessly integrating tool data into software
- Diagnosing asset health in the field
- Cloud-based data sharing

## Vibration tester
**Best suited for:**
- Predictive and condition-based maintenance
- Identifying root cause and diagnosing severity of machine’s condition
- Prioritizing critical repair and replacement options
- Use with motors, pumps, fans, compressors, belt/chain drives, gearboxes and spindles

## Process tools
**Best suited for:**
- Maintenance and calibration of process instruments and control system I/O
- Measuring, sourcing and simulating 4-20 mA control loops

## Power quality analyzers
**Best suited for:**
- Troubleshooting and preventing problems in power generation, transmission and distribution systems
- Conducting load studies to reduce energy usage applications
- Use with motors, pumps, generators, transformers, compressors and electrical panels

## Pressure calibrators
**Best suited for:**
- Pressure calibration of transmitters, gauges, switches and custody transfer meters
- Maintenance of almost any pressure device using pressure sourcing and mA measurements
- Calibrating P/I instruments with simultaneous pressure and current measurement

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Fluke. Keeping your world up and running.

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