

**FLUKE®**

Chemical Processing Solutions

Fluke solutions can help you maintain operational reliability and environmental safety

Fluke understands the chemical processing industry faces a range of challenges from dynamic market fluctuations to high energy consumption to stringent regulatory requirements. Downtime, energy waste and inaccurate measurements can cost millions and chemical processing professionals know that it's critical to maintain stable, continuous operations without sacrificing safety.

From pre-treating raw materials, to converting materials with a reactor, cracker or kiln, to mixing and purification, Fluke makes reliable tools that professionals in chemical processing can count on for accurate and consistent measurements—tools designed for the demanding chemical processing environment, the people who work there, and the challenges they face every day. With 65 years as the industry leader, they can feel confident that Fluke has the solutions they need to keep the chemical processing industry up and running.

Maintenance Superintendent

Issues faced:

- Ensuring uptime is continuous and predictable
- Safety of personnel and the environment
- Maintaining high product quality
- Staying within budget

Fluke solutions:

- ▲ Multifunction process calibrators
- Power quality analyzers
- Vibration tester
- Thermal imagers

Instrument Technician

Issues faced:

- Preventing downtime
- Safety systems testing
- Calibration of flow instruments
- Providing immediate response and repair during process interruptions

Fluke solutions:

- ▲ Process test tools
- ▲ Multifunction process calibrators
- ▲ Pressure calibrators
- ▲ Loop calibrators
- Portable oscilloscopes
- Digital multimeters

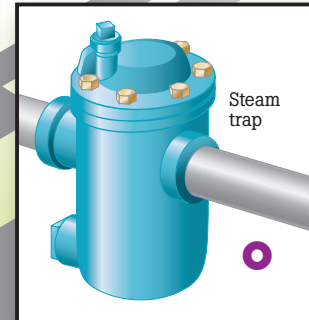
Mechanic/Millwright

Issues faced:

- Meeting equipment standards and specifications
- Preventive maintenance
- Effectiveness of repairs (valve repacking)
- Assembling machinery
- Determining optimal machinery placements

Fluke solutions:

- ▲ Process test tools
- Vibration tester
- Alignment tool
- Infrared thermometers
- Thermal imagers



Steam trap

Fluke chemical processing solutions

Process Calibration Tools				Electrical Test Tools			
Multifunction process calibrators	Loop calibrators	Pressure calibrators	Process test tools	Power quality analyzers	Portable oscilloscopes	Power loggers	
 726	 754	 709H	 729	 789	 430 Series II	 190 Series II	 1738

Midstream processing

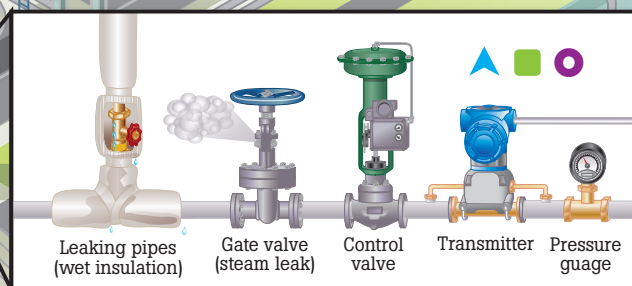
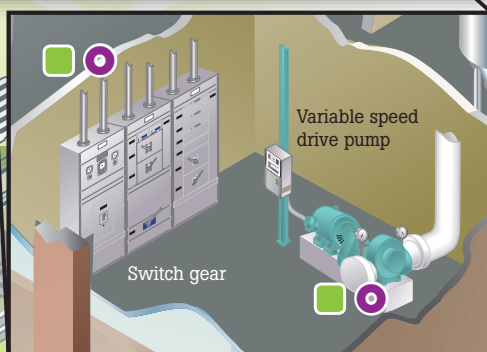
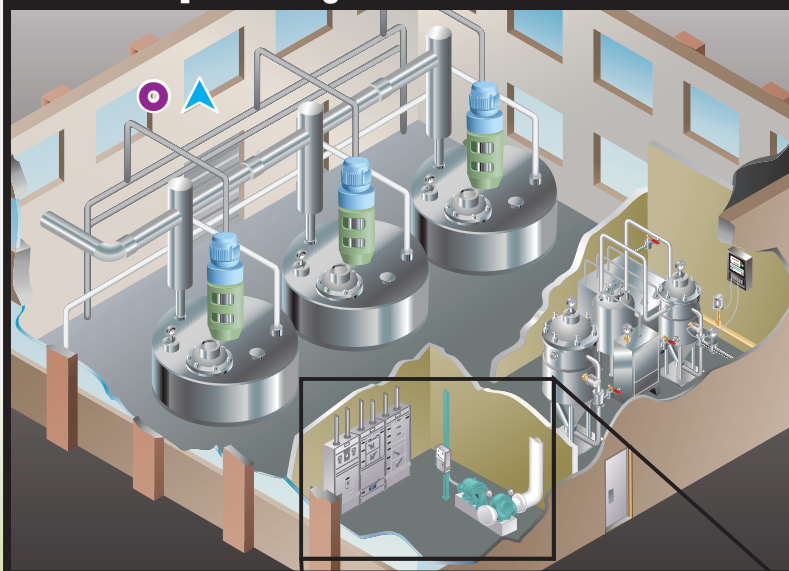


Diagram is not intended to be an exact representation.
Diagram components are not to scale and are for illustration purposes only.

Electrician

Issues faced:

- Delivering efficient, consistent and quality power from utility or generation to process systems
- Maintaining safety and high energy systems
- Controlling efficient breakers and motors

Fluke solutions:

- ▲ Process test tools
- ▲ Loop calibrators
- Power quality analyzers
- Insulation multimeters
- Clamp meters
- Portable oscilloscopes
- Power loggers
- Thermal imagers
- Vibration tester
- Infrared thermometers
- Infrared windows

Reliability Engineer

Issues faced:




- Preventive maintenance and asset uptime
- Root cause analysis to prevent future failures
- Troubleshooting emergent issues

Fluke solutions:

- ▲ Process test tools
- ▲ Multifunction process calibrators
- Insulation multimeters
- Thermal imagers
- Vibration tester
- Infrared thermometers
- Alignment tool

Learn how Fluke solutions can save you time and money while increasing efficiency and safety at www.fluke.com

Infrared and Vibration Tools

Clamp meters	Insulation multimeters	Digital multimeters	Thermal imagers expert	Thermal imagers professional	Infrared windows	Infrared thermometers	Vibration tester	Alignment tool
								
376FC	1587FC	28 II Ex	TiX560	Ti450	CV Series	568 Ex	810	830

Recommended chemical processing solutions

Portable oscilloscopes

Best suited for:

- Installing and maintaining electronic industrial equipment out in the field
- Diagnosing industrial machinery, automation and process controls and power electronics
- Bus health testing for industrial bus systems



Power quality analyzers

Best suited for:

- Troubleshooting and preventing problems in power generation, transmission and distribution systems
- Conducting load studies to reduce energy usage
- Use with motors, pumps, generators, transformers, compressors and electrical panels



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



Thermal imagers

Best suited for:

- Capturing and troubleshooting tank levels
- Detection of "hot spots" on motors, pumps, VFDs, bearing and conveyor belts
- Use with steam traps on stainless steel lines
- Inspecting boilers, process heaters and other heat-generating units



Process clamp meters

Best suited for:

- Measuring 4-20 mA signals without "breaking the loop" in process controls systems
- Sourcing 4-20 mA signals for testing control system I/O or I/Ps
- Measuring 10-50 mA signals in older control systems using the 99.9 mA range
- Taking measurements in hard-to-reach and hard-to-see areas



Multifunction process calibrators

Best suited for:

- Calibrating and maintaining process instrumentation and control systems
- Troubleshooting 4-20 mA loops, temperature, pressure, frequency and transmitters in one tool
- Performing HART transmitter adjustment



Temperature calibrators

Best suited for:

- Testing sensors and transmitters
- Sourcing and simulating thermocouples, RTDs, volts and ohms
- Powering transmitters during test



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



Fluke. Keeping your world up and running.®

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