

## Recommended oil and gas solutions

### 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



### 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



### 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



### 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



### Intrinsically Safe "Stik" Thermometers

**Best suited for:**

- No mercury Hazard or Alcohol, Platinum resistance thermometer (1000hm) Sensor
- Robust and Safe (IS) Thermometer for easy to use in field and lab
- Covers your most desired temperature range



### 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



### 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



### Thermal imagers

**Best suited for:**

- Inspecting pipes, motors and pumps
- Capturing tank levels
- Quickly detecting "hot spots" in hard-to-reach electrical panels
- Detection of refractory damage on process heaters
- Insulation inspection on boilers, gas turbines and regeneration units



### Sonic Industrial Imager

**Best suited for:**

- Do more with the same air compressors – delay the capital expense of purchasing an additional compressor
- Ensure proper air pressure to your pneumatic equipment
- Lower utility costs
- Reduce leak detection time
- LeakQ Report Generator



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## Oil and Gas—Downstream Solutions

### Fluke solutions can help you maintain operational reliability and environmental safety

Fluke understands the oil and gas industry faces a range of challenges from dynamic market fluctuations to multiple stringent regulatory requirements, and downtime and inaccurate measurements can cost millions. The professionals that work in oil and gas know it is critical to maintain stable, continuous operations without sacrificing safety.

Onshore or offshore, upstream to downstream, Fluke makes reliable tools that professionals in the oil and gas industry can count on for accurate and consistent measurements. Fluke tools are designed for the demanding oil and gas environment, the people who work there, and the challenges they face every day. With 73 years as the industry leader, they can feel confident that Fluke has the solutions they need to keep the oil and gas industry flowing.

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## 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:

- ▲ Process test tools
- Power quality analyzers
- Vibration tester
- Thermal imagers

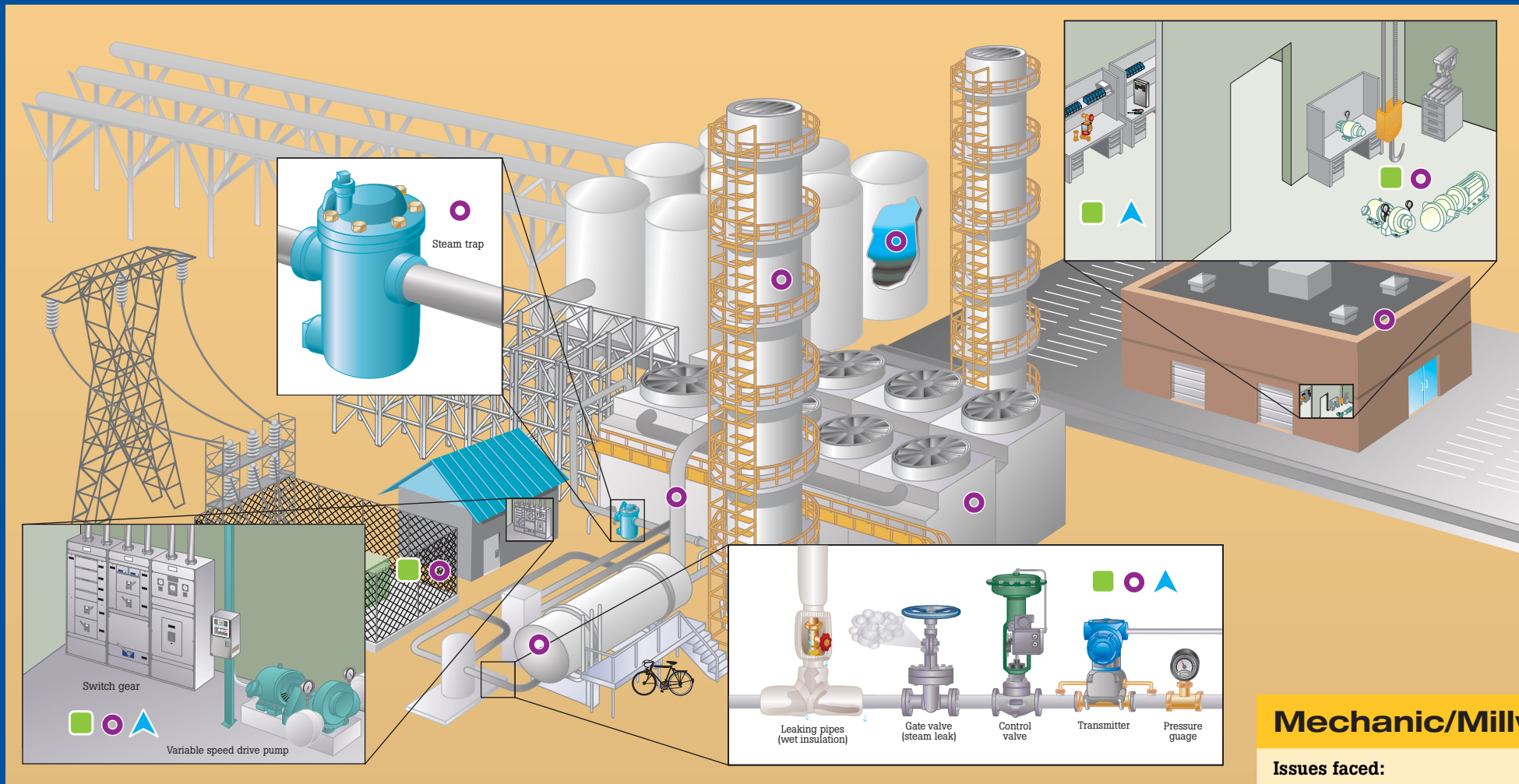
## Instrument Technician

### Issues faced:

- Preventing downtime
- Safety systems testing
- Providing immediate response and repair during process interruptions

### Fluke solutions:

- ▲ Process test tools
- ▲ Multifunction process calibrators
- ▲ Loop calibrators
- ▲ Pressure calibrators
- Precision pressure calibrators (IS)
- Portable oscilloscopes
- Digital multimeters



## Measurement Technician

### Issues faced:

- Accurate measurements of flow
- Calibration of flow instruments
- Repair verification

### Fluke solutions:

- ▲ Process test tools
- ▲ Pressure calibrators
- Insulation multimeters
- Thermal imagers
- Infrared thermometer

## 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
- Clamp meters
- Power quality analyzers
- Insulation multimeters
- Power loggers
- Earth ground testers
- Infrared thermometer
- Vibration tester

## Mechanic/Millwright

### Issues faced:

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

### Fluke solutions:

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

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

# Fluke gas and oil solutions

Learn how Fluke solutions can save you time and money while increasing efficiency and safety at [www.fluke.com](http://www.fluke.com)

Process Calibration Tools					Electrical Test Tools					Infrared and Vibration Tools					Visual inspection tools			
Multifunction process calibrators	Loop calibrators	Pressure gauges and calibrators	Precision Pressure Calibrator	Process test tools	Power quality and motor analyzers	Portable oscilloscopes	Battery analyzers	Insulation multimeters	Digital multimeters	Sonic Industrial Imager	Thermal imagers professional	Infrared thermometers	Vibration tester	Alignment tool	Diagnostic Scope	Flashlight		
754	707Ex	729	730G	721Ex	725Ex	773	430 Series II	190 Series II	BT521	1587 FC	28 II Ex	ii900 / ii910	T1400	568 EX	810	830	DS703	120Ex