

**FLUKE®**

Oil and Gas—Midstream Solutions

Fluke tools 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. Downtime and inaccurate measurements can cost millions. The professionals that work in the oil and gas industry 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 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 oil and gas industry flowing.

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
- Thermal imagers

Instrument Technician

Issues faced:

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

Fluke solutions:

- ▲ Multifunction process calibrators
- ▲ Temperature calibrators
- ▲ Loop calibrators
- ▲ Pressure calibrators
- Digital multimeters
- Battery analyzers
- Portable oscilloscopes
- Vibration tester
- Thermal imagers
- Alignment tool

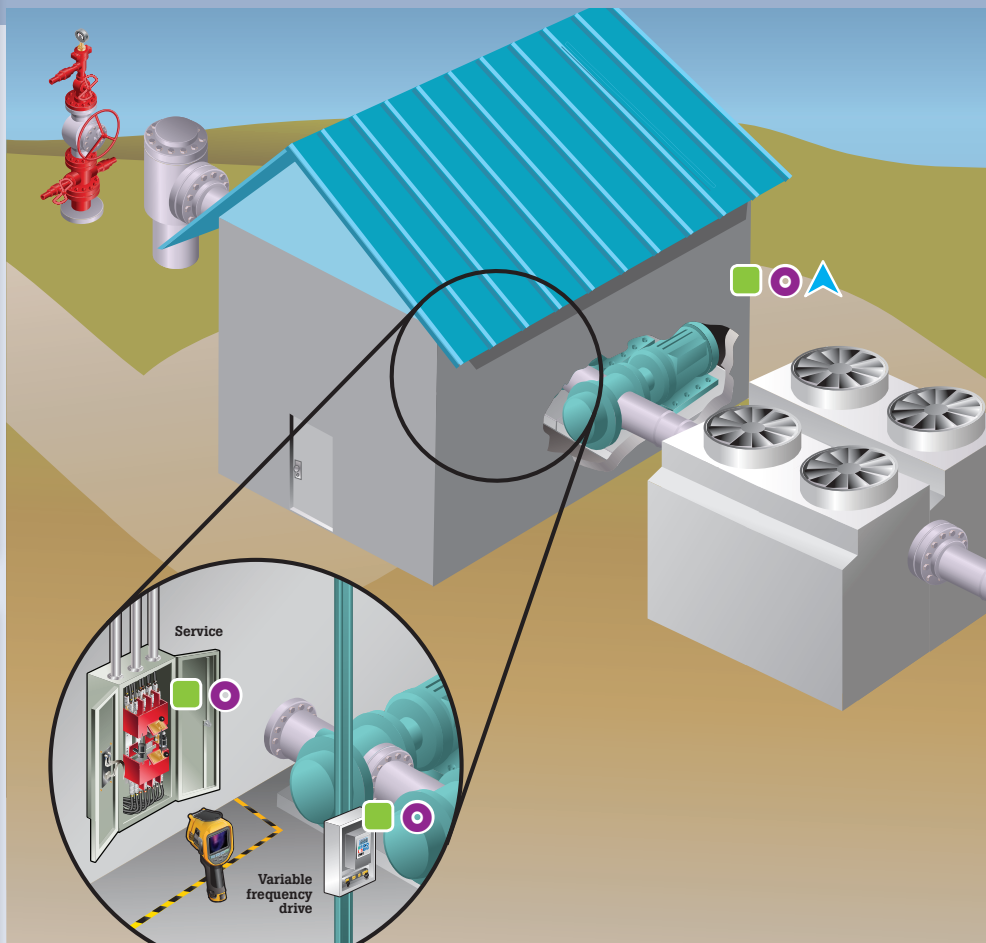
Measurement Technician

Issues faced:

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

Fluke solutions:

- ▲ Multifunction process calibrators
- ▲ Temperature calibrators
- ▲ Pressure calibrators
- Insulation multimeters
- Battery analyzers



Fluke oil and gas test and measurement tools

Process Calibration Tools

Multifunction process calibrators



754

Loop calibrators



709H

Pressure gauges and calibrators



729

700G

Temperature calibrators



714B

Process test tools



789

773

Electrical Test Tools

Power quality analyzers



430 Series II

Portable oscilloscopes



190 Series II

Mechanic/Millwright

Issues faced:

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

Fluke solutions:

- ▲ Loop calibrators
- Vibration tester
- Thermal imagers
- Infrared thermometers
- Alignment tool

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
- Battery analyzers
- Earth ground testers
- Insulation multimeters
- Power quality analyzers
- Portable oscilloscopes
- Power loggers
- Vibration tester
- Thermal imagers
- Infrared thermometers

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

Learn how Fluke's test and measurement tools can save you time and money while increasing efficiency and safety at www.fluke.com

S					Infrared and Vibration Tools			
Power loggers	Battery analyzers	Earth ground testers	Insulation multimeters	Digital multimeters	Thermal imagers professional	Infrared thermometers	Vibration tester	Alignment tool
								
1738	BT521	1625-2 Kit	1587 FC	28 II Ex	Ti400	568 EX	810	830

Recommended oil and gas tools

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



Earth ground testers

Best suited for:

- Earth resistance loop and soil resistivity testing
- Ensuring safety of personnel and proper operation of equipment
- Diagnosing intermittent electrical problems related to poor earth grounding



Thermal imagers

Best suited for:

- Inspecting pipes, motors and pumps
- Capturing and troubleshooting tank levels
- Quickly detecting "hot spots" in hard-to-reach 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



Digital multimeters

Best suited for:

- Measurement in and around highly-explosive environments
- Rugged, waterproof, dust-proof and drop-proof work in oil and gas environments
- Intrinsically safe testing and troubleshooting
- Use with switchgear, motors, variable speed drives, generators, electrical systems and cables



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



Fluke. *Keeping your world up and running.®*

Fluke Corporation

PO Box 9090,
Everett, WA 98206 U.S.A.

Fluke Europe B.V.

PO Box 1186, 5602 BD
Eindhoven, The Netherlands

For more information call:

In the U.S.A. (800) 443-5853 or Fax (425) 446-5116

In Europe/M-East/Africa +31 (0) 40 2675 200 or Fax +31 (0) 40 2675 222

In Canada (800)-36-FLUKE or Fax (905) 890-6866

From other countries +1 (425) 446-5500 or Fax +1 (425) 446-5116

Web access: <http://www.fluke.com>

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