

Recommended petrochemical solutions

<p>Multifunction Calibrators</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Troubleshooting and calibrating current loop functionality of a loop calibrator and digital multimeter built into one tool • Accurate temperature measurement • Calibration and maintenance of process control systems • Sourcing, measuring and documenting virtually any process variable <p>Petrochemical applications:</p> <p>Measure, source, and simulate dc loop current while sourcing, measuring quality of custody transfer and temperature transmitter calibration; calibrator and configuration of HART devices; documentation of test results for retail and upload.</p>	<p>Temperature Calibrators</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Troubleshooting and calibrating temperature sensors and transmitters • Measuring and sourcing RTDs, plus volts and ohms <p>Petrochemical applications:</p> <p>Measure thermocouples, RTDs, and transmitters by sourcing/stimulating thermocouples, RTDs, volts and ohms; executing repair and auto ramp powering transmitters during test using loop power supply with simultaneous mA, pressure and temperature transmitter calibration; linear/TC transmitter calibrator and configuration of HART devices; documentation of test results for retail and upload.</p>	<p>HART Smart Instrument Calibrators</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Documenting the performance of critical HART smart instruments • Priming the Sensor of a HART smart temperature or pressure transmitter • Trim the mA output of a HART smart device • Re-range the LRV and URV of a HART smart device • View configured HART variables • Set transmitter mA output to a fixed value • Log mA measurements over time • Simultaneously log mA signals, P, V, SV, TC and OV over time • Set log number and configure temperature sensor <p>Petrochemical applications:</p> <p>Tools that are specifically enabled to test troubleshoot and document the performance of HART smart instruments for upload to a CMIS (Calibration Management Software) system like the Fluke DPTTRACK2 or others software packages. With the D991 you can perform all the loop troubleshooting tasks that are available on the wall as well as source or simulate almost any transmitter input signals to test the entire transmitter.</p>
<p>Pressure Calibrators</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Pressure calibration of switches, gauges and pressure measurement tools • Testing of downhole pressure measurement tools • Maintenance of almost any pressure device using pressure sourcing and multiple measurement • Calibrating PVTs with simultaneous pressure and current measurement <p>Petrochemical applications:</p> <p>Pressure measurements using internal sensor; measure mA while sourcing; Pressure manual or automatic</p> <p>Support of remote drilling and exploration operations.</p>	<p>mA Process Clamp Meters</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Measuring 4 to 20 mA • Troubleshooting the loop • Sourcing, simulating and measuring mA voltage • Sourcing measuring DC voltage <p>Petrochemical applications:</p> <p>mA sourcing, simulation and measurement; loop calibration; maintenance and repair.</p>	<p>Gas flow Calibrators</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Calibration of mass flow controllers and meters • Calibration of transmitters <p>Petrochemical applications:</p> <p>High accuracy flow measurement; process development and support.</p>

More recommended petrochemical solutions

<p>Baths and Dry-vents</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Calibration of dial thermometers • Calibration of RTDs and thermocouples • RTD and thermocouple calibration check • Temperature controller loop calibration • Temperature transmitter calibration • Temperature switch test <p>Petrochemical applications:</p> <p>Provides a stable reference temperature measuring equipment against a standard of higher accuracy to detect and correct errors in the device being tested.</p>	<p>Precision Thermometers and Presses</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Contact temperature measurement in fluids • Contact temperature measurement in thermocouples in situ comparators with controllers, displays, and gauges. • Use as an external reference thermometer to improve calibration accuracy • Logging temperatures <p>Petrochemical applications:</p> <p>Provides a more accurate measurement of temperature measuring equipment and calibrating equipment against a standard of higher accuracy to detect and correct errors in other instruments or to improve calibration accuracy</p> <p>Use as an external reference thermometer to improve calibration accuracy</p> <ul style="list-style-type: none"> • Logging temperatures 	<p>Deadweight Pressure Controller Calibrators</p> <p>Best suited for:</p> <ul style="list-style-type: none"> • Calibration of pressure transmitters, gauges and switches • Maintenance of almost any pressure sourcing and millamp measurements • Calibrating PVT instruments with simultaneous pressure and current measurement <p>Petrochemical applications:</p> <p>Pressure measurements using internal sensor; measure mA while sourcing; Precise manual control; Ensuring safety of pressure containment vessels.</p>
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For more information

Find useful application notes, case studies, and posters for the petrochemical industry at www.fluke.com/petrochem.



FLUKE®

Petrochemical industry calibration solutions

Petrochemical manufacturing can be a tough and unforgiving environment. Whether you're ensuring regulatory compliance, performing preventive maintenance, or testing equipment, you need high-quality, cost-effective products that don't sacrifice safety or uptime.

With Process Calibration solutions from Fluke and Fluke Calibration for electrical, malfunctioning, mA loop, temperature, pressure and flow applications, you can find the right tools for the challenges you face every day.



FLUKE®

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**Regulatory/
Safety officer**

Focus: testing, maintenance and repair of equipment and systems

What issues do you face?

- Downtime prevention
- Safety systems testing
- Troubleshooting process interruption with immediate response and repair

Fluke solutions:

- Multifunction Tools
- Pressure calibrators
- Flow calibrators
- Temperature calibrators

Instrument Technician

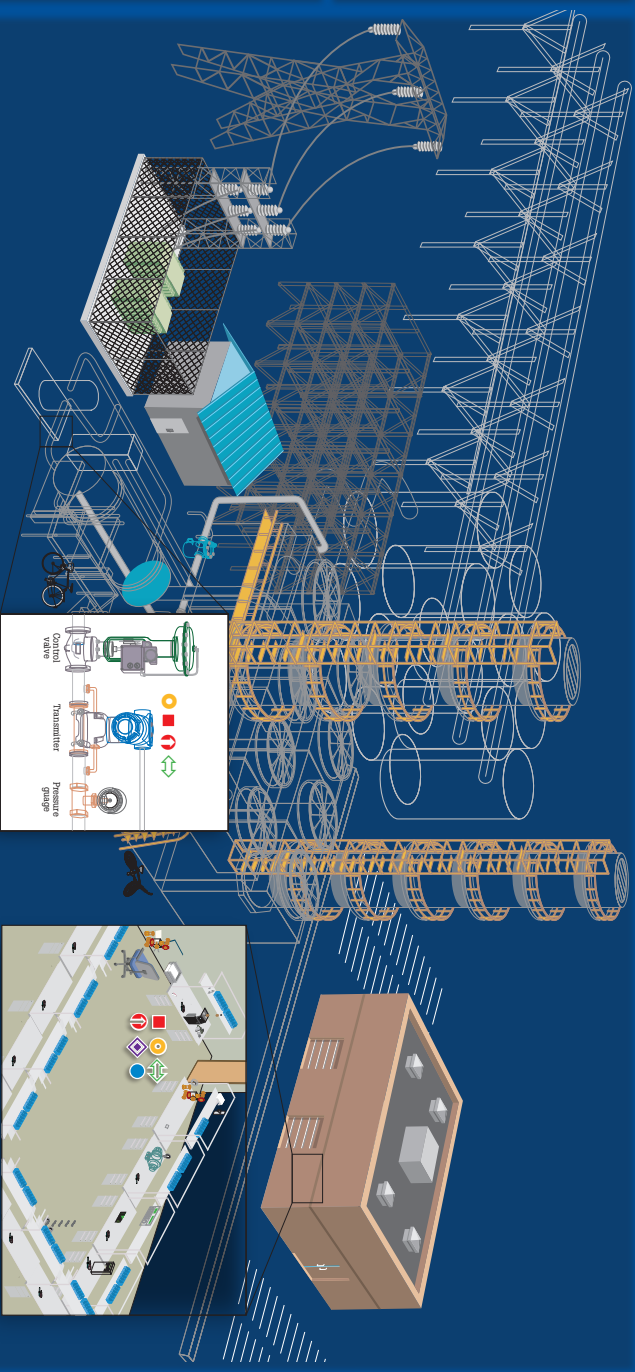
Focus: Testing, maintenance and repair of equipment and systems

What issues do you face?

- Downtime prevention
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Fluke solutions:

- Multifunction Tools
- HART smart instrument calibrators
- Pressure calibrators
- Flow calibrators
- Temperature calibrators
- Baths and dry-wells



Quality manager

Focus: maintaining and documenting product quality

What issues do you face?

- Complying with quality regulations
- Maintaining documentation of processes

Fluke solutions:

- Temperature calibrators
- Pressure calibrators
- Flow calibrators
- Multifunction calibration tools
- Baths and dry-wells

Engineer

Focus: process design and improvement

What issues do you face?

- Specifying equipment to meet regulations and requirements
- Preventing downtime

Fluke solutions:

- Temperature calibrators
- Pressure calibrators
- Flow calibrators
- Multifunction calibration tools
- Baths and dry-wells

Industrial calibration technician

Focus: calibrating measurement devices

What issues do you face?

- Making accurate measurements
- Documenting procedures
- Increasing throughput

Fluke solutions:

- Temperature calibrators
- Pressure calibrators
- Flow calibrators
- Multifunction calibration tools
- Baths and dry-wells

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

**Fluke
petrochemical
solutions**

Learn how Fluke solutions can save you time and money while increasing your productivity at www.fluke.com/petrochem. Based on you. Built by Fluke.

Multi-function and loop tools		Temperature calibration tools		Pressure calibration tools		Deadweight testers		Electrical calibration		Software										
709H Precision HART Loop Calibrator	716 Volume Calibrator	707 Loop Calibrator	726 Precision multifunction calibrator	724 Documenting Process Calibrator (HART)	739 Precision Process Calibrator with 250 Ohm IRTV Resistor	736A Precision Process Calibrator	7102 Micro-bath Thermometer Calibrators	914X Field Mercury Wells (mA Loop)	418T Precision Infrared Calibrator (temp)	1523/1524 Handheld Thermometer (temp)	1524 Ex-SIL™ Handheld Thermometer	709P Differential Pressure Module	719 Portable Biotic Pressure Calibrator	709C Precision Pressure Gauge Comparison Test Pumps	R315 Comparison Test Pumps	R3100 Hydraulic Deadweight Tester	E-DMPT-H Electronic Deadweight Tester	709CF Precision Controller/Calibrator	89454/8946A Precision 6.3 Digit Multimeters	790, 791 DP0/716K12 Software