Pharmaceutical manufacturing requires premium quality tools that provide accurate measurements and keep critical processes up and running. Whether you’re maintaining plant uptime, documenting product quality, or calibrating measurement devices, you need accurate tools that you can count on for the bench and the manufacturing floor.

With Process Calibration solutions from Fluke and Fluke Calibration for electrical, multifunction, mA loop, temperature, pressure and flow applications, you can find the right tools for the challenges you face every day.
Building control technician
Focus: monitoring, adjusting and repairing building controls

What issues do you face?
• Troubleshooting building environmental systems with immediate response
• Maintaining optimal temperature and production area cleanliness
• Safety systems testing

Fluke solutions:
• Process design

Temperature calibration tools
Pressure calibration tools
Flow calibration tools

Field calibration and instrumentation technician
Focus: verifying transmitters throughout the plant

What issues do you face?
• Troubleshooting
• Troubleshooting pressure interruptions
• Troubleshooting temperature and pressure systems
• Maintaining product accuracy for regulations and quality

Fluke solutions:
• Multi-function and loop tools
• Temperature calibration tools
• Pressure calibration tools

Quality manager
Focus: instrumenting and documenting product quality

What issues do you face?
• Complying with quality regulations
• Maintaining documentation of processes

Fluke solutions:
• Temperature calibration tools

Electrical calibration tools
Temperature calibration tools
Multi-function and loop tools

Engineer
Focus: process design, development and improvement

What issues do you face?
• Specifying equipment in most regulations and requirements
• Preventing downtime

Fluke solutions:
• Temperature calibration tools

Quality manager
Focus: maintaining and documenting product quality

What issues do you face?
• Maintaining production and processes
• Preventing downtime

Fluke solutions:

Field calibration and instrumentation technician
Focus: verifying transmitters throughout the plant

What issues do you face?
• Troubleshooting
• Troubleshooting pressure interruptions
• Troubleshooting temperature and pressure systems
• Maintaining product accuracy for regulations and quality

Fluke solutions:
• Multi-function and loop tools
• Temperature calibration tools
• Pressure calibration tools

Validation technician
Focus: providing validation services

What issues do you face?
• Thermal validation and studies
• Authoring and executing validation protocols, and writing reports of validation results

Fluke solutions:

Lab calibration technician
Focus: calibrating measurement devices

What issues do you face?
• Making accurate measurements
• Documenting procedures
• Increasing throughput

Fluke solutions:
• Temperature calibration tools

Fluke pharmaceutical solutions
Fluke offers a diverse range of solutions for pharmaceutical process monitoring and control. See www.fluke.com/pharma for detailed information on these products and more Fluke pharmaceutical solutions.
### Laboratory calibration

<table>
<thead>
<tr>
<th>Recommended products:</th>
<th>Best suited for:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field Metrology Wells, Micro-Baths, reference thermometers</td>
<td>Calibration of RTDs, thermocouples, thermistors, and thermal switches</td>
</tr>
<tr>
<td>Pressure controllers / calibrators</td>
<td>General calibration of pressure gauges, transducers or transmitters that are normally measuring gas or water pressure</td>
</tr>
<tr>
<td>Flow calibrators and standards</td>
<td>Calibration of gas flow</td>
</tr>
<tr>
<td>Thermo-hygrometers</td>
<td>Environmental monitoring</td>
</tr>
<tr>
<td>Infrared calibrators</td>
<td>Infrared thermometer and thermal imager calibration</td>
</tr>
</tbody>
</table>

### Process instrumentation and automation

<table>
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<tr>
<td>Process calibrators</td>
<td>Instrument calibration, performing HART transmitter adjustment</td>
</tr>
<tr>
<td>Field Metrology Wells</td>
<td>Transmitter loop calibrations, automated comparison calibrations of RTDs and thermocouples, or thermal switch tests</td>
</tr>
<tr>
<td>Handheld reference thermometers</td>
<td>Temperature measurement and testing in autoclaves, ovens, freezers, and chambers</td>
</tr>
<tr>
<td>Data loggers</td>
<td>Monitoring multiple process parameters over time voltages</td>
</tr>
<tr>
<td>Loop calibrators and process meters</td>
<td>Testing 4 to 20 mA analog signals and control system input/output</td>
</tr>
<tr>
<td>Milliamp clamp meters</td>
<td>Troubleshoot and test mA loop control signals. Measure mA I/o signals without breaking the loop.</td>
</tr>
<tr>
<td>Thermometer standards</td>
<td>Reference temperature measurements in fluids, test wells and dry-wells</td>
</tr>
<tr>
<td>Intrinsically safe pressure calibrators</td>
<td>Calibration and maintenance of pressure instruments in classified areas</td>
</tr>
<tr>
<td>Field calibration</td>
<td>Facilities maintenance</td>
</tr>
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</tr>
<tr>
<td><strong>Recommended products:</strong> IR thermometer calibrators</td>
<td><strong>Recommended products:</strong> Handheld reference thermometer</td>
</tr>
<tr>
<td><strong>Best suited for:</strong> Infrared thermometer and thermal imager calibration</td>
<td><strong>Best suited for:</strong> Efficiency testing of HVAC systems</td>
</tr>
<tr>
<td><strong>Field Metrology Wells</strong></td>
<td><strong>Low pressure controller/calibrator, low pressure handheld calibrators</strong></td>
</tr>
<tr>
<td><strong>Best suited for:</strong> Transmitter loop calibrations, comparison calibrations, or thermal switch testing.</td>
<td><strong>Best suited for:</strong> Air handlers, Magnahelics®, low pressure differential gauges</td>
</tr>
<tr>
<td><strong>Handheld and field dry-wells</strong></td>
<td><strong>Electronic deadweight testers</strong></td>
</tr>
<tr>
<td><strong>Best suited for:</strong> Checking the zero and span points of temperature sensors and transmitters</td>
<td><strong>Best suited for:</strong> Calibration of high pressure gauges, transducers or transmitters</td>
</tr>
<tr>
<td><strong>Micro-Baths calibrator</strong></td>
<td><strong>Pressure calibrator with pressure/vacuum pump</strong></td>
</tr>
<tr>
<td><strong>Best suited for:</strong> Accommodating probe dimensions while checking the zero and span points of temperature sensors and transmitters</td>
<td><strong>Best suited for:</strong> Low pressure transducer testing for pressure measurements that feed information to air handlers</td>
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**Fluke. The Most Trusted Tools in the World.**

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