Recommended pharmaceutical solutions

Laboratory calibration

Recommended products:

Field Metrology Wells, Micro-Baths, reference thermometers

Pressure controllers / calibrators

Flow calibrators and standards

Thermo-hygrometers

Best suited for:

Calibration of RTDs, thermocouples, thermistors, and thermal switches

General calibration of pressure gauges, transducers or transmitters that are normally measuring gas or water pressure

Calibration of gas flow

Environmental monitoring

Infrared calibrators Infrared thermometer and thermal imager calibration

Process instrumentation and automation

Recommended products: Best suited for:

Process calibrators Instrument calibration, performing HART transmitter adjustment

Field Metrology Wells Transmitter loop calibrations, automated comparison calibrations of

RTDs and thermocouples, or thermal switch tests

Handheld reference thermometers Temperature measurement and testing in autoclaves, ovens, freezers,

Data loggers Monitoring multiple process parameters over time voltages

Loop calibrators and process meters Testing 4 to 20 mA analog signals and control system input/output

Troubleshoot and test mA loop control signals. Measure mA I/o signals Milliamp clamp meters

without breaking the loop.

Thermometer standards Reference temperature measurements in fluids, test wells and dry-wells

Intrinsically safe pressure calibrators Calibration and maintenance of pressure instruments in classified areas







More recommended pharmaceutical solutions

Field calibration

Recommended products: Best suited for:

IR thermometer calibrators

Infrared thermometer and thermal imager calibration

Field Metrology Wells Transmitter loop calibrations.

comparison calibrations, or thermal switch testing.

Handheld and field dry-wells Checking the zero and span points of temperature sensors and transmitters

Micro-Baths calibrator

Accommodating probe dimensions while checking the zero and span points of temperature sensors and transmitters

Electronic deadweight testers

Calibration of high pressure gauges, transducers or transmitters

Pressure calibrator with pressure/ vacuum pump

Low pressure transducer testing for pressure measurements that feed information to

air handlers









Facilities maintenance

Recommended products: Best suited for:

Handheld reference thermometer

Efficiency testing of HVAC systems

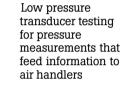
FLUKE

Low pressure controller/ calibrator, low pressure handheld calibrators

Air handlers, Magnahelics®, low pressure differential gauges

Calibration of Electronic deadweight high pressure gauges, transducers or

Pressure calibrator with pressure/vacuum pump



transmitters











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Pharmaceutical industry calibration solutions

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 uptime and production area cleanliness
- Safety systems testing

Fluke solutions:

- Pressure calibration tools
- Temperature calibration tools

Engineer

Focus: process design and improvement

What issues do you face?

- Specifying equipment to meet regulations and requirements
- Preventing downtime

Fluke solutions:

- Temperature calibration tools
- Pressure calibration tools
- Flow calibration tools
- Standards
- A Process tools

Quality manager

documenting product quality

What issues do you face?

- Complying with quality regulations
- Maintaining documentation of

Fluke solutions:

- Flow calibration tools

Focus: maintaining and

- processes

- Temperature calibration tools
- Pressure calibration tools
- Multifunction calibration tools

technician Focus: verifying transmitters throughout the plant

Field calibration and instrumentation

What issues do you face?

- Preventing downtime
- Troubleshooting process interruptions
- Testing safety systems
- Maintaining product accuracy for regulations and quality

Fluke solutions:

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

Diagram is not an exact physical representation. Diagram elements are not to scale and are for illustration purposes only.

Validation technician

Focus: providing validation services

What issues do you face?

- Thermal validations and studies
- Authoring and executing validation protocols, and writing reports of validation results

Fluke solutions:

Temperature calibration tools

Lab calibration technician

Focus: calibrating measurement

What issues do you face?

- Making accurate measurements
- Documenting procedures
- Increasing throughput

Fluke solutions:

- Temperature calibration tools
- Flow Calibration Tools
- Electrical Calibration
- Multi-function and loop tools
- Pressure calibration tools

Fluke pharmaceutica solutions

Fluke offers a broader line of solutions for pharmaceutica professionals than shown here. Go to www.fluke.eu/pharma_en for detailed information or these products and more Fluk pharmaceutical solutio

| æ | Multi-function and loop tools | | | | | | Temperature calibration tools Infrared thermometer Precision thermometers | | | | | Pressure calibration tools Handheld pressure Pressure gauges and Pressure Bench pressure | | | | | | | | calibration | Software Software | | |
|----------------------------------|--|------------------------------|---------------------------|---|--|--|--|--|---|---|--|---|--|---|---|--|---|-----------------------------------|---|---|---|--|----------------------------------|
| | mA loop calibrators | | | Multifunction calibrators | | | | Baths and dry-wells | | | calibrator | and probes | | calibrators | | comparison test pumps | | | Deadweight testers | | controller/calibrator | multimeter | solutions |
| al IS line ical o to | | 15: | 200001 | 2000 | | 8000 | | - | | | | | | | 8 | SOOD A | | 1 114 | # + 19 10 | | 0 | | |
| _eu 1 on uke ons. | 709H Precision HART Loop Calibrator | 715 Volt/mA Calibrator | 707 Loop Calibrator | 726 Precision multifunction calibrator | 754 Documenting Process Calibrator- HART | 789 ProcessMeter™ with 250 Ohm HART resistor | 7526A Precision Process Calibrator | 7102 Micro-Bath Thermometer Calibrators | 9190A Ultra-Cool Field Metrology Well | 914X Field Metrology Wells (temp and mA Loop) | 418X Precision Infrared Calibrators (temp) | 1523/1524 Handheld Thermometer Readout (temp) | 1551A Ex and 1552A Ex "Stik" Thermometer Readout | 700P Differential Pressure Mod- ules | 719 Portable Electric Pressure Calibrator | 700G Precision Pressure Gauge Calibrator | 2700G Series Reference Pressure Gauges | P5515 Comparison Test Pumps | P3100 Hydraulic Deadweight Testers | E-DWT-H Electronic Deadweight Tester | PPC4E Pressure Controller/ Calibrator | 8845A/8846A 6.5 Digit Precision Multimeters | 750 SW DPC/TRACK2 Software |