

CASE STUDY

Power facility reduces pressure maintenance costs with the Fluke 729 Automatic Pressure Calibrator

Challenge:

An instrumentation supervisor at a coal-fired power generation plant needed to replace an old failed pressure calibrator used to maintain and troubleshoot several hundred process instruments.

Solution:

He purchased a Fluke 729 Automatic Pressure Calibrator with a built in electric pump that automatically generates and regulates pressure up to 300 psi and includes HART communication.

Result:

Now, the company's instrumentation technicians need only carry one tool to quickly and accurately test multiple pressure points on switches and transmitters, rather than up to four tools required previously. This is projected to enable them to calibrate 20 % more instruments per route.

Safe and efficient coal-fired power generation requires that all process transmitters and pressure switches be regularly calibrated to ensure that accurate pressure measurements are being fed back into the control system. So when an instrument supervisor at a U.S. coal-fired

power generation plant recently needed to replace a pressure calibrator, he chose the Fluke 729 Automatic Pressure Calibrator. He chose the 729 for its:

- Built-in automatic pressure pump that generates and controls pressure up to 300 psi
- Ability to document applied pressure, measured mA, and % error for multiple test points in one set up
- Capacity to save measurements to the instrument.

The instrument technicians just type in the pressure range, set the % error, and hit the start button. The 729 automatically regulates the pressure. It even compensates for small leaks using stored compressed air and miniature air valves. This saves time and reduces the number of pressure calibration tools that technicians have to carry, from four to one.

The supervisor estimates that using the Fluke 729, allows his technicians to calibrate approximately 20 % more instruments per route. This increased efficiency saves a significant amount of troubleshooting and preventive maintenance time, and reduces the amount of time an instrument is offline for testing.



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The Fluke 729 Automatic Pressure Calibrator changes the way you calibrate pressure, alleviating common pain points, and making calibration easier than ever.

- Automatically pumps to the desired pressure set-point
- Eliminates the need for hand pumping and manual adjustments
- Decreases calibration time

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