Application story

Druck's DPI610E switch testing function keeps the water flowing at a water treatment plant

A water treatment plant uses the Druck DPI610E portable pressure calibrator to maintain switch valves.

Industry supplied:

- Water utility

Application:

DPI610E pressure calibrator used to verify that the valve switches are operating normally to maintain system water pressure.

DPI610E Portable pressure calibrator

The customer:

Our Applications Engineer was approached by a national utility in Europe for a portable solution for in-the-field switch testing of valves controlling water pressure.

Customer challenge

Water processing plants require the water to be pumped through the system at a specified pressure. If the water pressure drops, then a switch will be activated to start a compressor to maintain the required pressure. Once reached and maintained the switch will indicate that the compressor can be stopped.

Our customer required a cost effective, portable calibrator with a switch testing function for use with engineers on site.

Druck solution

The Druck DPI610E pressure calibrator is a robust, accurate and portable instrument to allow a technician to measure, monitor and record the change in electrical output of a pressure switch as the pressure input rises/falls.

With its inbuilt pressure generating pump and electrical connections, The Druck DPI610E is a capable instrument that can automatically record the pressures when the switch opens and closes.

The inbuilt switch test feature tests the actuation of pressure switches when they reach their set trip points and the reset action when the pressure returns to normal operating pressure limits. The Hysteresis value is also calculated at the end of each test. This measurement can also be used to measure and monitor the resistance of the switch which if too high could indicate a pre-failure replacement requirement.

Druck's added value:

Building on a legacy of 30 years of heritage in the portable calibration industry, Druck utilises the tried and tested, robust design of the DPI600 series, with new functionality, designed using the latest advancements in pressure measurement technology to create the DPI610E.

Being able to generate and measure pressure up to 35 bar pneumatic, and 1000 bar hydraulic, the DPI610E boasts testing functionality that makes the name of the "Iconic Druck" worthy.

Find out more about the Druck DPI610E:

DPI610E Datasheet

How to do a switch test video

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