DESIGNING AND MAKING A LEVEL MEASUREMENT WITH SIMULATION DIFFERENTIAL PRESSURE (DP) TRANSMITTER-BASED PC

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Abstract

Monitoring scale simulators have been generated at the level of open and closed tanks using Differential Pressure Transmitter. Pressure entering the DP transmitter is analogous to the pressure of the compressor. Where the simulator is able to visualize the results of pressure measurements on the PC screen after DP transmitter output signal is processed by using a series of ADC converter circuit 0804 and diinterfacekan through the parallel port DB 25. This simulator test results showed that the measurement range of 0-14 psi tank is open and there are differences in measurement results with the results of visualization on a PC screen for 0296. Whereas in a closed tank with a range of High Pressure (HP) 21-7 Psi and for the Low Pressure (LP) 7-14 Psi and there are differences in measurement results with the results of visualization on the PC screen on the HP pressure of 0.1725, for the LP 0.38

Keywords: High pressure, low pressure, DP transmitter
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