

API-Cecom Group *n'fo*

Technical & Application Note C187

Application: Monitor vacuum pressure for pickup's

Type Of company: Printing

Location: Texas

Problem: The customer has one of the largest currency printing operations in the world. The production of currency is not an easy or simple task, but one that involves highly trained and skilled craftspeople, specialized equipment, and a combination of traditional old world printing techniques merged with sophisticated, cutting edge technology. In 2003 subtle background colors were added to the currency to enhance the security so offset printing is the first printing that occurs on the "blank" paper sheets. The background colors are printed by state-of-the-art, high-speed, sheet-fed rotary offset presses. These presses are over 50 feet long and weigh over 70 tons. The blank sheet is fed by a vacuum pickup to the printing press where the paper passes in-between the face and back blankets and simultaneously prints the complete image on the paper. Currently the engineer is using an analog gauge to monitor the vacuum pickups but the gauge does not withstand the vibrations of this high speed operation. The engineer required a rugged gauge with an alarm to shutdown the motors on the press if the vacuum pickup is not operating properly.

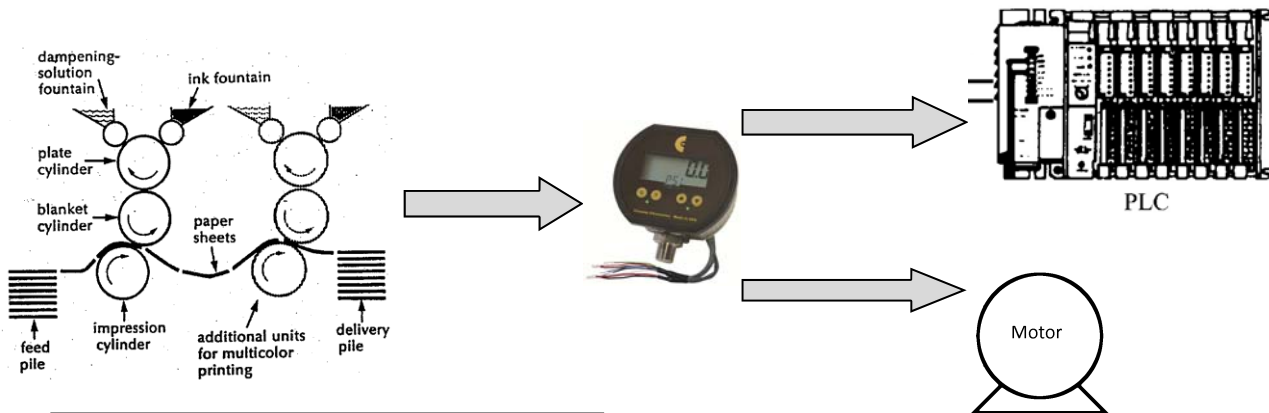
Note: for additional information on this process see http://en.wikipedia.org/wiki/Offset_printing

Solution: The customer purchased an Ultra-Ruggedized F16DAR gauge. This gives the engineer an accurate visual readout, an analog signal to send to the operational PLC and an alarm signal to shutdown the motors on the press if the vacuum pickup system is not operating properly.



F16DAR

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