

API-Cecomps Group *n'fo*

Technical & Application Note C120

Application: Local and remote monitoring of test chambers

Type of Company: Chemical Plant

Location: Texas

Problem: The customer is a manufacturer that produces styrene for many different applications. The customer manufactures finished pipe and then tests the burst pressure of the pipe to verify the quality of their product. The burst pressure is currently being monitored visually using an analog gauge but there are future plans to automate the testing process. Their plan requires that they increase the accuracy of their “burst tests” locally, add remote monitoring and plan for future automation.

Solution: API furnished the customer application assistance and DPG1000DR's. The DPG1000DR is a pressure gauge with a digital display and a retransmission output which allows the customer to locally monitor the pressure very accurately and use the output from the DPG1000DR to remotely monitor the pressure. Since the output signal the customer is using to remotely monitor the pressure is 4-20 mA he will be able to change from just a remote monitor to a PLC in the future to automate his testing process.



DPG1000DR1000PSIG

4-Wire Digital Pressure Transmitter



Benefits of API's solution:

Accurate monitoring of process quality

Lower cost due to labor savings

Future expansion capability


To find your local representative:
www.api-usa.com/api_rep_map.php

Cecomps Unique Feature



Functional Test Pushbutton

Holding the front panel TEST button sets both the display and the retransmission output to a test calibration level, independent of pressure input to allow testing of system operation. The Retransmission test level is set by a multi-turn potentiometer to any value from 0 to 100% of full scale. This signal can be used to check loop status, downstream display operation, downstream alarm operation, etc.

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