

API-Cecom Group *n'fo*

Technical & Application Note C154

Application: Monitor vacuum on kiln

Type Of company: Manufacturer

Location: Ohio

Problem: The customer is using a kiln to dry wood. They have developed a custom retort process which reduces the atmospheric pressure to the kiln to decrease the drying time by a factor of 4, in other words if it would take 1 month to dry the wood using a conventional kiln their process will only take a week. This process also reduces typical kiln drying defects which increases the yield substantially. The process issue is finding a digital gauge to accurately monitor the atmospheric pressure and send a signal to the PLC controlling the vacuum motors.

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

Solution: The customer purchased a 0-30 psia, Loop powered Gauge which gave both an accurate visual readout of the atmospheric pressure and a 4-20 mA signal to the PLC.



DPG1000L

2 Wire Loop Powered Digital Pressure Transmitter



Benefits of API's solution:

- ±0.25% Test Gauge Accuracy
- Accurate re-Transmission
- 0.5" digit height on Display for ease of reading

Cecom Unique Feature



This NEMA 4X battery powered gauge has a UV stabilized polycarbonate/ABS case with non-interactive zero and span controls. It has an accuracy of $\pm 0.25\%$ of full scale (± 1 least significant digit) with 2500 hours battery life using standard alkaline batteries. The single front button turns gauge on, starts auto shutoff timer, and provides zero (One-Touch Zero) function for gauge reference ranges.

To find your local representative:
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800-942-0315



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