

API-Cecom Group *n'fo*

Technical & Application Note C112

Application: Monitoring pressure on tube trailers
Type Of company: Industrial gas supplier
Location: California

Problem: The industrial gas supplier furnishes and transports industrial gases (helium, hydrogen, oxygen, etc.) to their customers for use in applications such as food processing, agriculture, and pharmaceuticals. Much of the transportation of the compressed gases to the customers site is done using tube trailers. Tube trailers consist of 10 to 36 high pressure cylinders varying in length from 20 to 36 feet that are each pressurized from 2400 to 3600 psig. The customer can either download the product into a storage facility or use the tubes individually or as a unit. The industrial gas supplier wants to accurately monitor and record the pressure in the tubes prior to the truck leaving their facility.

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

Solution: The customer purchased an DPG2000B5000PSIG-5-HA. The DPG2000B has an accuracy of 0.1% with the HA option, intrinsically safe, and is very rugged so calibration will typically not be affected by field conditions.



DPG 2000 B

Intrinsically Safe Battery Powered Digital Pressure Gauge



Benefits of API's solution:

- Accurate monitoring of pressure
- Rugged operation
- Use a standard product

Cecom Unique Feature




Bi-Color Alarm LEDs

The Cecom alarm family provides alarm status indication via a bi-color LED for each setpoint. The LED indicates **green** for a non-alarm condition and **red** for an alarm condition whether or not the unit is configured for normal acting or reverse acting. For system setup, testing, and troubleshooting, the test pushbutton can be used to toggle the state of the alarm relays. This allows them to be switched to their opposite state on demand without the need to vary the system pressure to test devices connected to the alarms

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