

# API-Cecom Group *n'fo*

## Technical & Application Note C119

Application: Monitoring vacuum in chemical tanks  
Type Of company: Chemical Plant  
Location: Oregon

**Problem:** The customer is a manufacturer of chemicals and their biggest customers are in the pharmaceutical industry. One of the main products that they manufacture are organic solvents. Many of these solvents are volatile and give off "solvent vapors" that can explode in the air. During the process a vacuum is maintained on the tanks to reduce the "solvent vapors" in the air and to move chemicals into and out of the tanks. Since keeping the vapor level at a low value is critical the customer needs a permanently mounted digital vacuum gauge that is reliable, accurate, has minimal drift and is intrinsically safe.

*Note: for additional information on this process see <http://en.wikipedia.org/wiki/Solvent>*

**Solution:** The customer purchased an DPG2000B760TORRA. The DPG2000B is intrinsically safe, accurate and is very rugged so reliability is not at issue.



**DPG 2000 B**

Intrinsically Safe Battery Powered  
Digital Pressure Gauge



### **Benefits of API's solution:**

- Accurate monitoring of vacuum
- Rugged operation
- Use a standard product
- Intrinsically Safe

### **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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