



GE  
Measurement & Control

**DUGAN TECHNOLOGIES**

Sensors - Process Controls - Metrology - Instrumentation

## PRESSURE MEASUREMENT SEMINAR - 2014 / OPEN HOUSE

Free & Includes Free Lunch

Earn up to 5 contact hours - Approved by the CWEA, good through 5/9/2015



You are cordially invited to attend one of our Pressure Measurement Seminars.

Spend the day learning about pressure measurement: sensors, portable calibrators, hand pumps, indicators, controllers, deadweight gauges, software and more. Learn from the factory experts at GE Measurement and Control's Sensing Division: Druck Incorporated. The presentations will be modular, with each session lasting about 1 hour. Pick the session you want and attend that one, or stay the day and attend all the sessions. There will be a complementary lunch at noon.



### Agenda:

**8:30 am: Coffee Continental Breakfast**

### 9:00 am: Overview of Pressure Measurement

1. Introductions
2. History of Pressure Measurement
3. Pressure Measurement Theory
4. Tools for Measuring Pressure: Instruments versus Sensors
5. Hands On Demonstrations

### 10:00 am: Pressure Sensors

1. Core Pressure Sensor Technologies Available in the Marketplace
2. Electrical Outputs: 4-20 mA, Voltage, mV, HART®, Foundation Fieldbus, CanBus, Modbus, Profibus, etc.
3. Pressure Connection Considerations: NPT, UNF, Swagelock, Metric, AN, Depth Cone, Male/Female, etc.
4. Certification Considerations: FM, CSA, CE, ATEX, IS, IP Ratings, etc
5. Specification Considerations: Accuracy, Thermal Errors, Calibration
6. Selecting the Right Kind of Sensor: How much accuracy, what features and capabilities are required?

## 7. Hands On Demonstrations

### **11:00 am: Pressure Sensors (continued)**

7. Application Specific Sensors:
  - a. Submersibles
  - b. Aerospace Certified Sensors
  - c. General Industrial
  - d. Process
  - e. HVAC
  - f. Oil Exploration
  - g. High frequency pressure measurements
  - h. Low Pressure (draft ranges)
  - i. Vacuum
  - j. High Pressure (above 15,000 psi)
  - k. Hands On Demonstrations

### **Noon: Complementary Lunch**

### **1:00 pm: Pressure Instruments**

1. Primary Standards (Pressure Controllers, Deadweight Gauges)
2. Bench Top Instruments (Pressure Controllers, Indicators)
3. Portable Calibrators (Calibrators/Indicators/Handhelds, Process, Multi-Function Calibrators etc)
4. Hand Pumps
5. How much accuracy, features, and capabilities are required for your workload?
6. What types of hardware, software, training and services will you need?
7. Hands On Demonstrations

### **2:00 pm: What's new from GE Sensing in Pressure Measurement?**

1. TERPS High Performance Pressure Sensing Technology
2. UNIK 5000 Series Pressure Sensor family (additions)
3. PACE 1000 Barometer and PACE Series Instruments
4. DPI 620 Genii Advanced Modular Calibrator and HART<sup>®</sup>/Foundation Fieldbus Communicator
5. DPI 611 Pressure Calibrator with built-in hand pump
5. 4SIGHT Calibration Software
6. Service & Calibration

### **3:00 pm: Hands-on demonstrations of calibration equipment and pressure sensors**

1. Pressure Controllers, Indicators
2. Portable Calibrators, Hand Pumps
3. Calibration Software (4Sight)
4. Pressure Sensors

### **Times, Dates and Locations**

Doors open at 8:30 a.m. for sign-in, coffee and pastries. The program begins at 9:00 a.m. and concludes at 4:00 p.m. A complimentary lunch will be served at noon.