



## Chemical Industries

### Solutions for the Chemical Manufacturing Industry



#### **Case Study #1 Ammonium Nitrate Fertilizer Manufacturer with High Temperature Inline Environments**

Strong Acid/Fluoride Resistant pH Element & High Temperature and Acid Resistant Solid State Reference Junction

Chemically & Thermally Resistant RADEL & PEEK plastic body housings

Application Oriented Engineering and Custom Built to Order sensor increased the lifetime by Two to Five Fold

**Download to Read More Features:  
[Case Study #1 PDF](#)**



**Case Study #2  
pH & ORP Measurement in High Sulfide,  
High Temperature and pH process solutions**

Specialized Sulfide Resistant Triple Junction Reference Junction  
Thick Wall Ruggedized, High pH sensitive measurement element  
Waterproofing Assembly for completely Submersible Installations

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[Case Study #2 PDF](#)



**Case Study #3  
NOx Treatment System and pH Sensors for High  
Nitric Low Process Media**

High Acid – Wide Range pH Sensor for aggressive acid media  
Deep Insertion Distance from Hardware Interface Point  
Retrofit to Existing pH Transmitter for cost savings

**Download to Read More Features:**  
[Case Study #3 PDF](#)



**Case Study #4**  
**pH measurement in almost pure (99%) Organic Solvents & Solvent Recovery Systems**

Specialized Organic Solvent Resistant Solid State Reference System

Wide Range pH element to handle wild pH fluctuations in small water phase of process (1% water total)

Extremely high chemical resistance offered by PEEK sensor body housing

Integrated high temperature rated temperature compensation elements, stainless steel solution ground, and high impedance CMOS operational amplifiers (preamplifiers) that allow retrofitting to almost any existing pH transmitter

Proven Solution for pH measurement in Class I, Division I (Zone 0) Areas

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**[Case Study #4 PDF](#)**



### **Case Study #12 Saturated Sodium & Dissolved Gas Resistant pH Sensors**

Saturated Sodium Resistant pH glass element and Dissolved Gas Resistant Solid State Polymer Reference System are specifically engineered for Chlor-Alkali and functionally similar Process Applications

High Quality PEEK plastic is not damaged by presence of dissolved oxidizing gases such as chlorine and chlorine dioxide

Vastly superior lifetime due to custom engineering and component selection

Offered at very competitive prices as compared with other more generic sensors

Ability to integrate requires electronic components means that these sensors can be retrofitted into almost any existing installation and mate with most process pH instrumentation

**Download to Read More Features:**  
**[Case Study #12 PDF](#)**