

# FREEZE-PROOF

## SUCCESS STORY

### ELECTRICAL & MECHANICAL PRESSURE INSTRUMENTS

## Customer

### *Nevada Special Utility District (NSUD)*

NSUD is a Special Utility District that is committed to providing safe, high quality water services to their community while maintaining a standard of excellence in customer service and environmental conservation. In order to maintain the highest standards of service and conservation, NSUD must closely monitor their fresh drinking water system pressure. Pressure management in pipe networks is fundamental to providing safe drinking water. The loss of pressure can allow ground water to contaminate the distribution system, and fluctuations in pressure can affect the physical integrity of pipes. In addition, failure of pressure monitoring devices can lead to the waste of clean drinking water by failing to shut off pumping systems that are used to maintain tanks and towers at the correct level.

## Problem

During typical freezing weather, NSUD experienced the loss of some electronic pressure sensors and mechanical pressure gauges. NSUD determined the cause to be fresh drinking water freezing inside the instrumentation itself. These instrumentation failures decreased the operators' ability to monitor the system and required immediate replacement.

*“ BriceBarclay helped us resolve a persistent water utility industry problem of freezing instrumentation and controls due to exposure to the elements. Because of their professionalism and product knowledge, BriceBarclay has become the go-to source for these products for our public utility. ”*

*~ Johnny Rudisill, General Manager Nevada Special Utility District*

## Solution

*BriceBarclay was called upon to help NSUD eliminate the possibility of their sensors and gauges freezing during inclement winter weather. Drawing on our broad expertise in pressure and temperature instruments and controls, we offered a sanitary solution used in the food and beverage industry. Our recommendation to transition their most problematic sensors and gauges to ones with a sanitary diaphragm seal would isolate their pressure sensors from the drinking water. By doing so, the water would no longer be able to freeze inside the instrument.*

### Ashcroft 2030 Series Digital Sanitary Pressure Gauges

### Ashcroft E2 Sanitary Pressure Transducers

### Ashcroft KS Sanitary Pressure Transducers



## Results

Months after NSUD implemented our solution, the area experienced the coldest weather North Texas has seen in 72 years. The winter storm caused a record low temperature at Dallas/Fort Worth International Airport of  $-2^{\circ}\text{F}$ . NSUD had zero pressure instrumentation failures where our sanitary seal solution was implemented.

## Let's Work Together

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## Our Company

Since 1948, BriceBarclay has served as a manufacturer's representative and wholesale distributor providing customers with prompt quotations, product expertise, and a large inventory of products ready for same day shipment. Our product lines include instrumentation, valves, and controls for pressure, temperature, electrical, flow, and level applications across a wide range of industries.

## Our Team

Our sales team has earned their reputation for extensive product and application knowledge. We hire only the best people and train them to be top performers. With an average of ~20 years of experience selling instrumentation, controls, and valves, our salespeople have the answers to your questions.

Since  
1948