

**PRODUCT INFORMATION****ASHCROFT DURATEMP<sup>®</sup>, THERMOMETER'S PERFORMANCE WINS  
BIG OVER WEISS THERMOMETERS!!**

The results are in!! Ashcroft Duratemp<sup>®</sup> thermometer outperformed the Weiss gas thermometer in vibration application testing.

**TEST PRODUCTS**

**Ashcroft Duratemp Thermometer P/N: 600A-04-C03-B01-A1-L01 Range -20/120°F**

**Weiss Gas Thermometer\* P/N: G45E14-87-05FT Range 0/120°F**

\*This same thermometer is also marketed under the TEL-TRU, and TREND, Trademarks.

**Test Parameters**

Both units were surface mounted vertically on a block. The block was subjected to our standard vibration test for instruments (7.5g 120Hz).

**Test Results**

After 135 million cycles (13 days), the Ashcroft Duratemp thermometer was in excellent working condition. The pointer remained stationary throughout the test and the unit had a maximum inaccuracy of 1.4%.

Weiss Gas Thermometer got progressively worse over time (up to 25% inaccurate) and eventually failed after 135 million cycles (13 days) of vibration. The cause of the failure was the wearing out of the mating surfaces between pinion and segment gear teeth and the wearing out of the segment pivot. This wear caused the pinion to separate from the segment and the pointer to drop against the dial pin. During vibration, the Weiss unit's pointer oscillated  $\pm 5^{\circ}\text{F}$  and was impossible to read accurately.

The Weiss gas thermometer tested is also sold under the TREND and TEL-Tru Trademarks. Sell Ashcroft Duratemp Features . . . Durable by Design.

- Movementless design resists shock and vibration – no gears to wear or misalign.
- Gas actuated molecular sieve – one bulb size for all ranges – and mercury free.
- Readily available – popular ranges 2 to 4 weeks delivery often sooner.