

### 1. Soil Testing

A mfr of soil testing systems uses analog model D125-BEPT1 sensors to measure small shear strains as they apply stresses to soil samples.



### 2. Drilling & Fracturing Fluids Testing

A mfr of viscometers/rheometers uses digital model no. mDMS-D38-BT7W sensors to measure very small rotations of a torsion-spring mounted arbor at elevated pressures and temperatures. The probe features a compression fitting welded to the shaft and an embedded sapphire window in the tip to seal 1,000 psi.



### 3. Thermostat Testing

A mfr of bi-metallic switches uses model RC100-C1MT9 sensors to detect proper snap of the switch when heated.



### 4. Precision Gear Testing

A mfr. of precision gear testing machines, uses model mDMS-D63-T7 sensors to measure microinch level shaft deflections caused by gear imperfections.

The probe tips have the fiberoptics doubly recessed to:

- a) provide light shielding
- b) eliminate the near side region of operation



### 5. Semi-Conductor Manufacturing

A mfr uses model mDMS-RC100-RT7 sensors in their silicon wafer stage procedure to level the chuck for the silicon wafer.

The sensor features a custom 90° tip for very accurate positioning and alignment.



### 6. Turbopump Testing

Companies developing new launch vehicles are using Philtec sensors to measure dynamic shaft deflections in turbo pumps. Custom probe designs are developed for sensor operations at:

- Pressures up to 8700 psi
- Exposure to rocket fuel
- Exposure to cryogenic liquids

