CUSTOM APPLICATIONS

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.



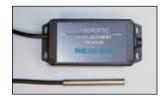
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CUSTOM APPLICATIONS

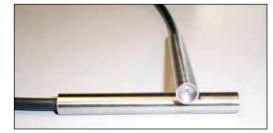
4. Precision Gear Testing

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



