

VACUUM APPLICATIONS

The Spring issue of *Cold Facts* includes this ad for Philtec. *Cold Facts* is the magazine of the Cryogenic Society of America:

www.cryogenicsociety.org

Philtec has developed many successful solutions for displacement measurements in vacuum and cryogenic environments.

Q. I would like to inquire about gap measurements done under UHV in the range of μm . Could you please tell me who should I contact in order to see if there is any instrument specific for our case? Thank you for your time.

A. We can provide a sensor solution using very low outgassing epoxies and sensor materials. Could you give a more complete description of the application. For example,

- Is the gap opening and closing with single axis motion towards and away from the sensor tip?, or
- Is the target going to translate or rotate past the sensor tip?
- What is the target material and surface roughness?
- Is the total gap in the range of microns, or is there a larger gap with a micron range of motion?
- What is the size of the target?
- How accessible is the target? Will a straight probe work or do you need a 90° probe?
- What is the distance from the vacuum bulkhead to the measurement location?
- What is the distance from the vacuum chamber to the sensor electronics?
- What is the temperature profile?
- Is there a high magnetic field?
- Is there any ambient lighting?
- What sensor response speed is required?
- Do you prefer analog output, RS232 or USB?
- How many sensor channels are needed?

I will be happy to help you choose the best sensor model and system configuration, once I have a good understanding of your application.

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