

**FOR IMMEDIATE RELEASE**

## **Helica™ Fiber-Optic, Ultra-High Temperature Sensor to 1000 °C**

**A new addition to Chiral Photonics' fiber-optic sensing line underscores its unique ability to address harsh conditions**

Pine Brook, New Jersey – Chiral Photonics is proud to announce the newest addition to its Helica™ products – a robust fiber optic temperature sensor designed for the most demanding industrial and R&D applications that require stability to 1000 °C.

The sensor was designed for applications ranging from weld monitoring and control to turbine engine service and design. The sensing element is a monolithic glass fiber and is as stable as the silica glass. It is not reliant on any moving parts or coatings and the sensor packaging can be tailored to suit the application needs..

The Helica Temperature Sensor is based on Chiral Photonics' patented chiral grating, which is fabricated by twisting, or microforming, the fiber as it is passed through a miniature heat zone to produce a distinct dip in the transmission spectrum. The spectral position of the dip in this chiral fiber changes with temperature allowing it to be used as a temperature sensor.

"Customers have been enthusiastic about this monolithic glass solution which does not rely on photoinduced gratings or coatings or moving parts, thereby offering the reliability inherent to glass," states Dan Neugroschl, Chiral Photonics' CEO.

Specifications:

- Temperature Range: Up to 1000°C
- Accuracy: 1%
- Sensitivity : 0.01 nm/°C (nominal)
- Probe (metal sheathing) Length: 300 mm standard - *Other lengths available upon request*
- Sensor/Grating Length: 15 mm - *Other lengths available upon request*
- Sensor Placement: 25 mm from probe tip - *Other configurations available upon request*
- Connector Type: FC/APC - *Other connectors available upon request*

**For details please visit our website : [www.chiralphotonics.com/web/1000Ctempsensor.html](http://www.chiralphotonics.com/web/1000Ctempsensor.html)**

### **About Chiral Photonics, Inc.**

Chiral Photonics, Inc. is the world-leading provider of in-fiber photonics. Chiral Photonics fulfills the photonic world's demand for performance and ease of integration by uniting the unparalleled functionality of optical fiber with low-cost, high-volume manufacturing across a full array of sensor, filter and laser products.

Chiral Photonics is headquartered in Pine Brook, NJ. More information on Chiral Photonics can be found on the company's web site: [www.chiralphotonics.com](http://www.chiralphotonics.com).

###

High resolution photos available at:

[http://chiralphotonics.com/Web/press\\_images.html](http://chiralphotonics.com/Web/press_images.html) (Temp Sensor)

Press Contacts:

Gary Weiner  
Chiral Photonics  
973-732-0030 Ext. 114  
gweiner@chiralphotonics.com

Joanna Laznicka  
Phaze-9 (PR Firm)  
408-448-3113  
joanna@phaze-9.com