

OPTRA Announces Availability of NanoGage™ Model 100 for Accurate Positioning and Short-Range Displacement Measurements

Topsfield, Massachusetts (February 27, 2006) - OPTRA, Inc. announces the availability of the NanoGage™ Model 100 short-range position sensor. NanoGage is a small electro-optic sensor with performance equivalent to a precise capacitance gage but with a 3mm standoff, little sensitivity to electromagnetic interference and a large measurement bandwidth. NanoGage can fit a broad range of applications, such as: maintaining a closed-loop position, automated focusing at a specific surface height, run-out measurements, or vibration measurements. NanoGage is cost-effective with a list price of \$2,995.

The Model 100 sensor has a small cylindrical package for easy installation. The sensor is approximately 0.5 inches in diameter and 2.2 inches long; the structural body of the sensor is made of aluminum. This product has a linear measurement range of 100 microns and a signal capture range of ± 400 microns. Its resolution is 15 nanometers rms at 100kHz measurement bandwidth.

The fundamental principle of NanoGage is the accurate triangulation of a reflected laser spot across a photoelectric detector. The optical sensor works with reflective surfaces; such as glass or metal. NanoGage 100 requires a minimum 4% surface reflectance for a specular target and works with smooth machined surfaces. This model has approximately a 100 micron diameter laser spot footprint at the target surface.

OPTRA, Inc. is a supplier of ultra precision measurement solutions using state-of-the-art electro-optic technology. The company also markets NanoGrid® and NanoScale®, nanometer resolution planar and linear encoder products. OPTRA has a history of winning leading-edge technology development contracts for commercial and government related research. OPTRA manufactures products and also licenses certain technologies which have originated from its development work.

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