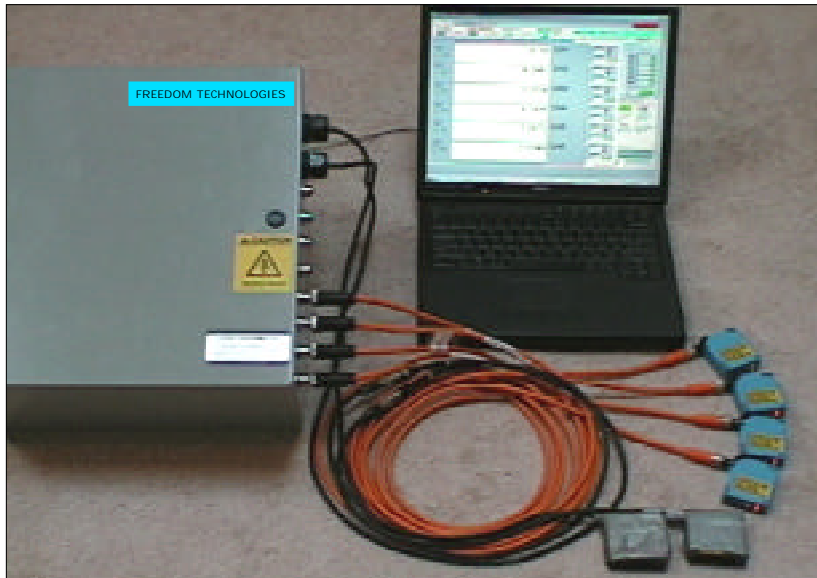


Application Note 1006

Analog Displacement Sensor Integration



Illustrated above are six analog displacement lasers of two different manufacturers integrated into one displacement measurement system utilizing our Measure Tracks software.

**Problem**

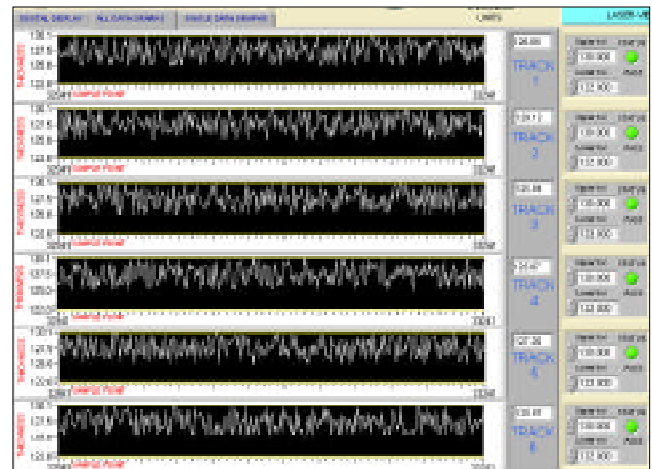
Frequently companies have or are purchasing geometric laser sensors for measuring either displacement or thickness. In addition they frequently have difficulty integrating mismatched sensors into a process.

**Solution**

At Freedom Technologies, we have invested in the development of in-process software to accommodate the problem. The software, Measure Tracks, is designed to allow us to take the input from any manufacturer's analog or digital distance sensor. We build into an enclosure the appropriate analog or digital (serial) input cards from the appropriate manufacturer and input the measurement data into Measure Tracks.

Measure Tracks can operate in either the data taking or in-process measurement mode, depending on the user's requirements. Up to eight tracks of thickness or displacement can be displayed on a PC monitor screen. In addition to displaying the instantaneous measurement data, graphical plots of each track can be plotted for trend analysis. The data

can be sent to a text file and or Excel™ for further analysis or archive purposes. For a complete description of Measure Tracks, please refer to the Measure Tracks data sheet. Pictured below is a screen shot of six (6) individual thickness tracks while in process. Alarms will trigger for an out of tolerance condition on any of the tracks.



**The closer you look, the better we measure!**

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