

Press Release

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New Capacitive Sensors Connect to LabView™ Instantly, Transmit Data Sheets and Detect System Faults – While Improving Performance

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New Elite Series noncontact, capacitive displacement sensor systems from Lion Precision employ the latest in sensor communication technology to make integration in data acquisition systems easy and robust. The Elite Series features the CPL190 and CPL290 capacitive sensors and the MM190 Meter/Signal Processing Module. Using Virtual Instrument Drivers, Elite Series systems can connect to National Instruments LabView™ to retrieve measurements and control system functions. A high-density connector on the rear panel of the system connects directly to National Instruments data acquisition boards. Improved performance and added features also benefit users not employing LabView™.

Elite Series provides more than simple measurement information:

- TEDS (Transducer Electronic Data Sheets): Communicates calibration information such as calibrated range, last calibration date, calibration due date, driver electronics serial numbers and associated probe serial numbers.
- Fault Detection: Alerts the data acquisition system if the measurement is out of range or due for calibration

Elite Series also includes performance enhancements whether or not they are used with LabView™:

- Analog signals to the data acquisition system are differential for higher signal to noise ratio.
- Multiple sensor systems are synchronized to prevent inter-channel interference.
- Odd and even numbered channels use inverted excitation signals to null the ground current flow and eliminate noise and offset in differential measurements. Technical details on this technique are available in Lion Precision TechNote LT03-0022 Capacitive Sensors and Ungrounded Targets, available at www.lionprecision.com; click on Technical Library/TechNotes
- Full metal module enclosures minimize RFI.

Elite Series also includes unique, Lion Precision features:

- Calibrated range indicator bar
- Selectable dual calibration
- Zero adjustment disable switch
- Front panel BNC voltage output (single-ended)
- Front panel ground connection

Typical Specifications:

Ranges:	0.0004" to 0.4", 0.01mm to 10mm
Resolution:	0.004%F.S. RMS, 0.04%F.S. P-P
Bandwidth:	15kHz
Error Band:	0.3%F.S.
Maximum Drift:	0.02%F.S./°F, 0.04%F.S./°C
Output Voltage:	±10V

For more information on the Elite Series sensors, visit www.elitesensors.com.

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Lion Precision noncontact, capacitive displacement sensors are used for high-resolution measurement of position, displacement, small motions and detection of presence/absence/quantity of nonconductive materials such as glue or paper additives. Primary markets are semiconductor manufacturing, disk drive industry, automotive manufacturing, packaging equipment and research universities and national laboratories.

For more information visit www.lionprecision.com or contact Lion Precision at:

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