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Strain Gauge Measurements via Ethernet

Tigard, OR - Sensoray announced the newest addition to their 2600 series of smart I/O modules, the 2612. **Model 2612** allows for simultaneous measurement of up to four 350 strain gauges per module. Two voltage sense lines for the bridge input provide a true 6-wire measurement with 200 nV resolution at a 6 Hz rate. The 2612's microcontroller provides I/O services to the remote 2601 client via a category-5 cable. The cat-5 cable supplies isolated serial communication and power to the 2612's microcontroller.

The 2612 has automatic standardization circuitry that periodically measures on-boards reference standards to update the gain and offset of each channel. Subsequent readings use the newest computed gain, offset and bridge input voltage. Factory calibration constants are stored in non volatile memory so that 2612's can be replaced without requiring field calibration. A 14-bit A/D digitizes all analog inputs and internal references at two 150 mS intervals. Each input's averaged results are stored in on-board memory. The 2612 has four A/D converters and no multiplexing is necessary. Linux and Windows drivers and demo applications are included as is a Labview software interface.

For more information go to www.sensoray.com/2612

ABOUT Sensoray

Sensoray is an industry-leading designer and manufacturer of OEM electronics for video imaging, data acquisition and machine control. The company is committed to technical excellence and design innovation. Founded in 1982, Sensoray offers customers practical, reliable solutions alongside outstanding live technical support and service. Sensoray provides tools to aid rapid development and ensure customer success. For more information, or to speak to an engineer regarding a custom design, visit www.sensoray.com or email support@sensoray.com.

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