

Announcing the SST-HV Plug & Play Smart TEDS IEEE 1451.4 Compliant Transmitter

The SST-HV is a high voltage self-calibrating transmitter designed for use with TEDS compatible load cells and torque sensors.

TEMECULA, CALIFORNIA, UNITED STATES, March 24, 2021 /EINPresswire.com/ -- To operate this great time and cost saving, self-calibrating transmitter, connect it to a TEDS compatible [Load Cell](#) or [Torque Sensor](#) and the SST-LV will automatically self-calibrate, saving valuable engineering time and cost consistent with calibration requirements.

The SST-HV is a Plug & Play Smart TEDS IEEE 1451.4 compliant Transmitter. Just plug in a TEDS compatible Load Cell or Torque Sensor and the SST-HV will automatically self-calibrate. When used with a non-TEDS Load Cell or Torque Sensor, the SST-LV Transmitter is easily programmed using a PC with an RS232 port and Instrument Setup (IS) software.

The SST-HV may be powered from 95-240 Vac $\pm 10\%$. The SST-HV has an Isolated transducer excitation output that is selectable between 5Vdc or 10Vdc. There are Dual solid-state relays and an Isolated 4-20 mA, 0-20 mA or 0-10V analog output. There are three Isolated serial data transmitter output (RS232, Half-duplex RS485, full-duplex RS485) and three serial protocols available, selectable with our downloadable (IS) software (Modbus RTU, Modbus ASCII and Custom ASCII). Isolation to 250V rms is provided for



CAL-TEDS Plug & Play Smart Sensors



SST-HV Plug and Play Smart Load Cell Transmitter



SST-HV Plug and Play Smart Load Cell Transmitter

power, signal input, analog output, relay outputs, and communications. Isolation adds safety and avoids possible ground loops. The transducer excitation output is isolated to 50V from signal ground. Interfacing the SST-HV Transmitter to a TEDS IEEE 1451.4 Interfacing the SST-HV [Load Cell Transmitter](#) to a TEDS IEEE 1451.4 compliant Load Cell / Torque Sensor is as easy as plugging a mouse into a computer, making it a true plug-and-play experience.

Learn more facts and specifications from our website.

<https://www.transducertechniques.com>

Transducer Techniques, established in 1979, designs and manufactures a complete line of load cells, torque sensors, special purpose transducers and related instrumentation. Transducer Techniques load cells are uniquely designed for weight and force measurement in such diversified applications as process control and factory automation. Other applications exist in numerous fields of science and industry for our load cells. All transducer sensing elements incorporate bonded foil strain gauges, wired in a full Wheatstone bridge configuration.

Technology

Load cells are electro-mechanical transducers that translate force or weight into voltage. This change in voltage produces a signal in the read-out instrumentation, a repeatable deflection or indication that can be calibrated directly in terms of the load applied to the load cell.

Construction

Construction of the load cell utilizes all the advantages of bonded foil strain gauges. Sealed within the load cell are sets of matched strain gauges bonded to a high strength element, machined to close tolerances. The strain gauges are electrically connected to form a balanced Wheatstone bridge and additional compensation resistors are added to the circuit for maintaining the accuracy of the bridge over a wide temperature range.

Operation

The principle of operation depends upon the deflection of the strain gauge filament, creating a change in its resistance, thereby unbalancing the bridge circuit. As a result, for a given input voltage, the output voltage of the bridge varies proportionally with the load and the change can be read on appropriate instrumentation.

Quality

When completed, each load cell is individually tested and calibrated. Each cell must meet or exceed rigid electrical and mechanical performance tests before it is released for service. Also, every cell is proof tested to its full rated capacity, and in most instances, to over its rated capacity.

Attributes

An important asset of our load cells is their extremely small deflection. The maximum deflection of standard cells does not exceed .012" at full load. This plus the fact that these load cells contain no moving parts opens unlimited application fields. The inherent compactness of the load cells minimizes installation problems.

The frequency response characteristics of our load cells are exceptionally good. The relatively low mass, and the small deflection under load, result in a high-frequency response which emphasizes the use of the load cells in many services where other transducers cannot perform.

Only strain gauges of the highest quality are installed and configured by technicians who have undergone our extensive training program targeting craftsmanship and attention to detail. To the end-user, this means a quality product. All Load Cells / Force Sensors and Torque Sensors are supplied with a Calibration Certificate traceable to NIST.

Customer Support

Transducer Techniques, LLC

+1 800-344-3965

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