



Smart Sensor Interface



Objective

This product provides electronic sensor-to-digital interface for many types of low-rate sensors, such as pressure, temperature, and strain. It provides excitation, AC/DC conversion, linearization, thermal compensation, identification, and Calibration Tables. As currently arbitrarily configured, it communicates via RS485 half-duplex-serial-link, although there is nothing which requires that particular protocol. Other busses could be supported.

Why Needed

Technology offers a convenient interface, using few wires, to nearby Data Acquisition (DAQ) system allowing 2-wire daisy chained implementation. This device permits simpler, more secure, more reliable, and less expensive installations of data acquisition sensors. Requiring only a single data channel frees up space within the acquisition system and makes it easier to wire a particular set of transducers into it. Less wiring means less cost and the overall system gives cleaner, more trustworthy data and control.

Point of Contact

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Sponsor

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