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Find the *Control Technology 2207* at our website: ***Click HERE***

Model 2207 16-Channel Analog Input Module

For applications requiring one or more medium-resolution analog inputs, the model 2207 represents a low cost solution. This module provides 16 analog inputs, each with a resolution of 0.1% (1 part in 1000 or, nominally, 10-bit resolution) -- more than adequate for most industrial automation applications. Additionally, several features of the model 2207 greatly enhance its flexibility, allowing current-loop devices and even a low-level signal to be accomodated without adding external components.

Voltage-to-Frequency Conversion for Increased Accuracy

Industrial environments present particular challenges to the accurate sensing of analog signals. Not only are electrical grounds often "noisy", but radiated and conducted noise seems to find its way into any electrical wiring, no matter how carefully shielded it may be.

The model 2207 uses two effective techniques for combating these problems. First, the analog inputs are completely optoisolated from the controller's logic circuitry - and from the power line ground - greatly decreasing the chances of an unintended ground loop which could otherwise inject considerable noise into your readings.

Secondly, all conversions are integrated over a period of time (approximately 5 mS), creating a natural filtration effect to reduce the impact of high-frequency transients. The net result is a module which assists your efforts to create an optimal analog data acquisition system.

Reduced System Complexity

For interfacing to sensors which provide 4-to-20 mA current loop signals, the model 2207 contains integral dropping resistors which may be jumper selected independently for each channel. These, in conjuction with the on-board 15 VDC power supply, allow up to five such sensors to be accommodated with no external circuitry required.

The model 2207 also provides a single differential amplifier, allowing one channel (channel #16) to be used for low-level "strain gauge" signals. This amplifier may be adjusted for a gain of 280 to 575, allowing direct connection to many types of pressure transducers and load cells. Course and fine gain adjustments are provided, as well as an offset adjustment, for tailoring this amplifier to a specific transducer. An on-board precision 10.00 V. reference supply may be used as the excitation source for the transducer, eliminating the need for external interfacing components.

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