PRESS RELEASE

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Axiomatic Technologies Corporation has developed a range of valve controllers that can be used for multiple applications.

The 8 Input, 5 Output Valve Controller (8i5o) is designed for versatile control of up to five proportional outputs to directly drive coils or other loads. Its flexible circuit design gives the user a wide range of configurable input or output types. The sophisticated control algorithms allow the user to program the controller for a wide range of applications without the need for custom software. It can be operated as either a self-contained control system, driving the outputs directly from the on-board inputs, and/or it can be integrated into a CAN J1939 network of controllers. All I/O and logical function blocks on the unit are inherently independent from one another but can be programmed to interact in many ways.

The controller has seven fully programmable universal inputs that can be setup to read: voltage; current; resistive; frequency; PWM signal; or digital input signals. For added flexibility, it also has a magnetic sensor circuit that can read AC signals and convert them into a frequency (RPM) pickup.

Lastly, there is an eighth digital input that can be used for global enable/disable or overrides of one or all of the outputs.
There are four universal outputs that can be setup to drive: proportional current (up to 3.5A each); hotshot digital current; proportional voltage (up to supply); proportional PWM; or straight on/off digital loads. For applications requiring a fifth digital output, there is also one high-side (sourcing) output for up to a 3.5A digital load.
Lastly, the 8i5o has a number of built-in protection features that can shut off the outputs in adverse conditions. They include hardware shutoffs to protect the circuits from being damaged as well as software shutdown features that can be enabled in safety critical systems.

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