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PID контроллеры DLC RED LION. Техническое описание

Overview:

Red Lion's DLC line of PID controllers offer two independent input channels which can be configured to accept a wide range of thermocouple, RTD, 0-10 V, 0/4-20 mA, or resistive signals. Each channel can be independently configured to extract the square root of the input in both process voltage or process current modes for applications such as flow measurement using a differential flow sensor. Channel B can be assigned as a remote setpoint for channel A.



Alarms:

The dual time proportioning or DC analog outputs can be programmed to control two independent processes and feature up to two alarms per channel which can be configured for various alarm modes, or can provide a secondary control output for heat/cool applications. The control and alarm outputs are N channel open drain MOSFETs which are capable of switching up to 1 amp DC.

Operation:

The DLC controller operates in the PID control mode for both heating and cooling with on-demand auto-tune which establishes the tuning constants. The PID tuning constants may be fine-tuned through the serial interface. The controller employs a unique overshoot suppression feature, which allows the quickest response without excessive overshoot. It can also be transferred to operate in the manual mode, providing the operator with direct control of the output, or the on/ off control mode with adjustable hysteresis.