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PAX[®] 2C PID Controller

Red Lion Automation Series

Advanced Industrial PID Controller

Red Lion's PAX[®]2C Controllers work with field installable cards to enable users to change or replace capabilities to meet temperature and process application requirements.

From the dual line, tri-color display to universal power and input capabilities, Red Lion's PAX2C PID controllers are packed full of features that set it apart from other PID controllers. Choose from a range of field-installable output cards for inputs, outputs and communications option to deliver an ideal solution for applications requiring multiple parameters to be visualized or controlled at the same time. Ramp Soak capabilities allow users the ability to change and hold machine temperature - either up or down - for a specific time period to easily integrate time-stepped processes. In addition, the PAX2C offers color changing display with multiple zones, built-in USB programming port and configuration software.



- > Field Installable Function & Option Cards
- > Multiple PID Control Capabilities
- > Universal Sensor and Power Inputs
- > Built-In USB Programming Port
- > Configuration Software Included
- > Multi-Color Changing Display
- > Up To 16 Alarms with Boolean Logic Functionality

FEATURES & BENEFITS

INDUSTRY APPLICATIONS

> Factory Automation

Food & Beverage

Plastics & Molding

Water/Wastewater

Heat Treatment

Packaging

>

>

>

>

- > Powerful Crimson 2.0 Software
 - · Reduces configuration time and effort
 - Easy to store for multiple unit configuration
- Field Installable Cards
 - Easy to add or replace functions or option cards
 - Wide range of function and options
 - Reduces on-hand inventory of PID controllers
- > Multi-Color Displays
 - Easy to read numerical and bar-graph displays
 - Color change promotes easy-to-see process changes
 - Dual line display
- > Ramp Soak Capability

industrial

• 16 profiles with up to 20 step changes

automation

Supports wide variety of application requirements

- > Universal Inputs
 - Sensor inputs accepts DC Current/Voltage, Process Signals, Thermocouples, RTDs and Resistance
 - Power input accepts AC or DC power without polarity
- > Built-In Programming Port
 - Eliminates external converters
 - Reduces wiring time
 - Ideal for multiple unit configuration
- > Setpoint Capability
 - Relay, solid state and triac cards
 - Up to 16 alarms with Boolean Logic functionality



HEAFAFAMM







DISPLAY PROPERTIES

Negative image LCD with tri-color backlight. The display is divided into seven independently programmable color zones: Line 1, Line 2, Universal Annunciators (1-4) & Mnemonics Vertical Model: Line 1 - 0.51" (13.0 mm), Line 2 - 0.44" (11.2 mm) Horizontal Model: Line 1 - 0.62" (15.7 mm), Line 2 - 0.47" (12.0 mm) Display Range: -1999 to 9999

POWER

AC Power: 40 to 250 VAC, 50/60 Hz, 20 VA DC Power: 21.6 to 250 VDC, 8 W

KEYPAD

2 programmable function keys, 4 keys total

A/D CONVERTER

24 bit resolution

UPDATE RATES

A/D conversion rate: programmable 5 to 40 readings/sec.

INPUT CAPABILITIES

Current Input: $\pm 250 \mu$ ADC, $\pm 2.5 m$ ADC, $\pm 25 m$ ADC, $\pm 250 m$ ADC, and $\pm 2 A$ DC Voltage Input: $\pm 250 m$ VDC, $\pm 2.0 V$ DC, $\pm 10 V$ DC, $\pm 25 V$ DC, $\pm 100 V$ DC, and $\pm 200 V$ DC Thermocouple Input: T, E, J, K, R, S, B, N, and C RTD Input: 100Ω Pt (Alpha 0.00385 and 0.00392) 120Ω Nickel (Alpha 0.00672) and 10Ω Copper (Alpha 0.00427)

Resistance Input: 100 Ω , 1,000 Ω , and 10 K Ω

EXCITATION POWER

Jumper selectable Transmitter Power: +18 VDC @ 50 mA Reference Voltage: +2 VDC, ± 2% Reference Current: 1.05 mADC, ± 2%

CUSTOM LINEARIZATION

Data Point Pairs: Selectable from 2 to 16 Display Range: -1999 to 9999 Decimal Point: 0 to 0.000

SETPOINT PROFILE

Profiles: 16

- Segments per Profile: 20 ramp or hold segments (linkable up to 320 segments)
- Segment Time: 0 to 999.9 or 9999 minutes; can be extended by linking
- Ramp Rate: 0 to 9999 process units per minute (optional selection replaces Segment Time)
- Error Band Conformity: Delays profile execution; Off or 1 to 9999 process unit's of deviation

Power-On Modes: Stop, start, or profile resume

- Profile End Modes: End (control to last executed profile setpoint), Stop (terminate profile and disable PID control), OFF (terminate profile and control to setpoint selected by SPSL), SP1-SP6 (terminate profile and control to chosen setpoint)
- Profile Auto Cycle: 0 to 250, 0 = continuous
- Event Outputs: 4 Event Flags, profile segment activated (can be mapped to Outputs)
- Setpoint Profile Selection/Control: Front panel buttons, user input, or MODBUS communications

CONTROL SETS

Setpoints: 7; SP1-SP6 and SPu

- Control Sets: 6, CS1-CS6; (linked combination of setpoint, SPx value and PID Set PSx)
- PID gain sets: 6, PS1-PS6; includes PID constants, Output Power Offset, Output power filter, and Heat/Cool gains
- Control Set Selection: Front panel buttons or user input, or MODBUS communications

MEMORY

Nonvolatile FRAM memory retains all programmable parameters and display values

INPUTS

Two programmable user inputs

CERTIFICATION & COMPLIANCE

Refer to EMC Installation Guidelines section of the bulletin for additional information UL Listed: File #E179259

CONNECTIONS

High compression cage-clamp terminal block

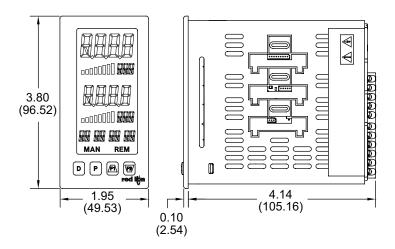
ENVIRONMENTAL

Operating Temperature Range: 0 to 50 °C Storage Temperature Range: -40 to 60 °C Operating and Storage Humidity: 0 to 85% max. relative humidity non-condensing Altitude: Up to 2000 meters

MECHANICAL

Construction: This unit is rated for NEMA 4X/IP65 indoor use; IP20 Touch safe; Installation Category II, Pollution Degree 2; One piece bezel/case; Flame resistant; Synthetic rubber keypad; Panel gasket and mounting clip included Weight: 8 oz. (226.8 g)

DIMENSIONS In inches (mm)



Note: To determine dimensions for horizontal units, swap height and width.

PAX2C PID Controller Specifications

ORDERING INFORMATION

PART NUMBER	MODEL	DESCRIPTION
PX2CHZ00	PAX2C	Universal Input Temperature/Process Profile Controller, with Flexbus [™] Capability, Horizontal
PX2CVR00		Universal Input Temperature/Process Profile Controller, with Flexbus [™] Capability, Vertical
PAXCDS10	PAXCDS	Dual Form C Relay Digital Output Card
PAXCDS20		Quad Form A Relay Digital Output Card
PAXCDS30		Quad Sinking Open Collector Digital Output Card
PAXCDS40		Quad Sourcing Open Collector Digital Output Card
PAXCDS50		Dual Triac/Dual SSR Drive Digital Output Card
PAXCDS60		Quad Form C Relay Digital Output Card
PAXCDC10	PAXCDC	RS485 Serial Communications Card with Terminal Block
PAXCDC1C		Extended RS485 Serial Communications Card with Dual RJ11 Connector
PAXCDC20		RS232 Serial Communications Card with Terminal Block
PAXCDC2C		Extended RS232 Serial Communications Card with 9 Pin D Connector
PAXCDC30		DeviceNet Communications Card
PAXCDC50		Profibus-DP Communications Card
PAXCDL10	PAXCDL	Analog Output Card
PX2FCA00	PX2FCA	Process Input/Remote Setpoint/PID Card with Digital Outputs
PX2FCA10		Heater Current Monitor Input Card, with Digital Outputs

Specifications are subject to change. Visit www.redlion.net for more information.



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