

FlexCard™: Universal PAX®2 Modules

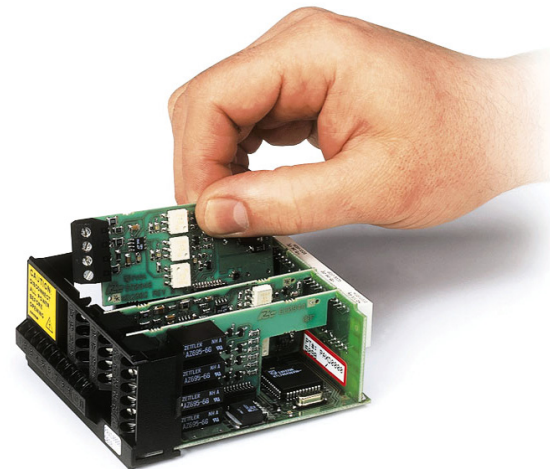
Red Lion Automation Series



▶▶▶ Field-Installable FlexCard Modules

Red Lion's FlexCard modules quickly expand the functionality of PAX2C PID controllers to meet application requirements.

Red Lion's PAX2C PID controllers offer the capability to add and change FieldCard modules and PAX option cards as your application and communications requirements change. Red Lion's field-upgradeable solutions are the perfect alternative to competitive meters that require a new meter every time conditions change.



APPLICATIONS

- > Factory Automation
- > Flow and Temperature
- > Manufacturing
- > Process Control

PRODUCT HIGHLIGHTS

- > Field-Installable FlexCard Modules Provide:
 - Optional Heater Current Monitor
 - Optional Secondary Process Input
 - Optional Full PID Controller
- > Plug-and-Play Installation
- > Crimson® Software Programmable

FEATURES & BENEFITS

- > Field-Installable FlexCard Modules
 - Allows PAX2C PID controllers to quickly meet any PID control application requirement
 - Reduces inventory requirements and expands available PID control monitoring
- > Plug-and-Play Installation
 - FlexCard modules can be installed in any available card slot
- > Variety of FlexCard Module Options
 - Heater current module provides warning and alarm before heater elements fail
 - Integrate multi-zone PID control into a single PAX2C display reducing space and complexity
 - Remote setpoint module offers secondary process inputs or remote setpoint input
- > Easily Programmed
 - Easily configured using Crimson software or keypad on face of meter
 - Simple and intuitive programming

▶▶▶ Field-Installable FlexCard Modules

POWER

Power for the card is provided via PAX2C controller

OUTPUT SPECIFICATIONS (APPLIES TO ALL MODULES)

Four Solid-State NFET Outputs

Type: Switched DC, N channel open drain MOSFET

Current Rating: 1 ADC max

VDS On: < 0.2 V @ 1A

VDS Max: 30 VDC

Offstate Leakage Current: 0.5 μ A max

OUTPUT POWER SUPPLY

+Volt: 18 to 25 VDC @ 40 mA max

CONNECTIONS

Rear Terminals: Fixed

Type: High compression cage-clamp terminal block

Wire Strip Length: 0.31" (8 mm)

Wire Gauge Capacity: 26 to 16 AWG (0.14 to 1.5 mm²)

Torque: 4.4-5.3 inch-lbs (0.5-0.6 N-m)

Top Terminals: Removable

Type: Spring - cage terminal block

Wire Strip Length: 0.27" (7.0 mm)

Wire Gauge Capacity: 24 to 16 AWG (0.2 to 1.5 mm²)

CERTIFICATIONS AND COMPLIANCES

Complies with all certifications and compliances of the host PAX2C controller

PX2FCA00 PROCESS INPUT/PID CONTROLLER FLEXCARD: SPECIFICATIONS

Input Ranges: 0 to 10 VDC, 0 to 20 mA DC

A/D Conversion: 16 bit, 6.8 samples/sec

Input Specifications:

Input Range	Accuracy @ 0-50°C	Input Impedance	Max Input Signal
10 V 20 mA	0.1% of span	538 K Ω 10 Ω	30 V 150 mA

PX2FCA10 HEATER CURRENT MONITOR FLEXCARD: SPECIFICATIONS

A/D Conversion: 16 bit, 6.8 samples/sec

Input Specifications:

Type: Single phase, full wave monitoring of load currents

Input: 100 mA AC output from current transformer

Input Resistance: 5 Ω

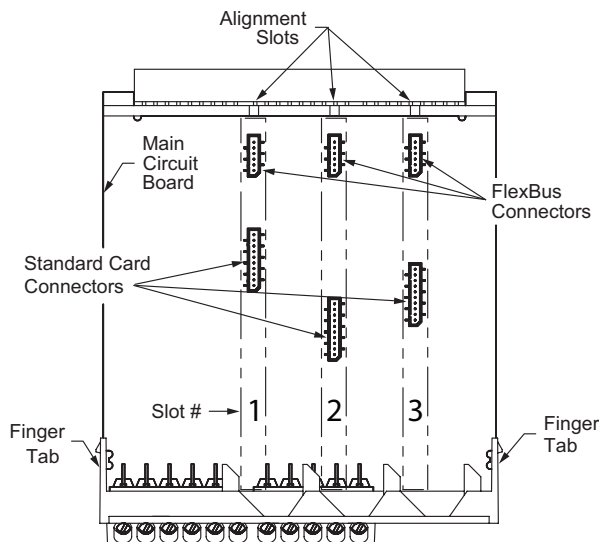
Accuracy: $\pm 2.0\%$ full scale, 5 to 100% of range

Frequency: 50 to 400 Hz

Overload: 200 mA (continuous)

Output on time delay for break alarm: 1 second)

INSTALLATION DIAGRAM



ORDERING GUIDE

PART NUMBER	DESCRIPTION
PX2FCA00	Process Input/PID Controller FlexCard
PX2FCA10	Heater Current Monitor FlexCard



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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

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