

1/8 DIN, DC Power, 4 to 20 mA, Relay, 2 User Inputs, RS-485 PID Controller

Item number: PXU31AC0

The PXU 1/8 DIN, DC Power, 4 to 20 mA, 2 User Inputs, RS-485 PID Controller is simple to program with a large, easy to read display that's easy to mount in small areas. Dependable operation in industrial environments. Give your operation full confidence with industry-leading PID control for a range of applications.



A PID controller for basic needs with universal input capability

Features and benefits

- ✓ **PID control you can count on**
Reliable PID control for a range of basic to advanced requirements. Suitable for simple on/off applications or for scenarios requiring full PID control.
- ✓ **Main Control**
4 to 20 mA
- ✓ **RS-485 connectivity**
Use the RS-485 port to collect process values and display data remotely. Simple setup with Crimson configuration software.
- ✓ **Universal input capability**
Get input and display data easily from pressure transducers, flow meters, current transducers, RTDs and thermocouples. Select input with front panel push buttons or using Crimson configuration software.
- ✓ **Performance indicators and alerts**
Extend performance visibility by enabling status indicators. Configurable for alarm requirements, control features and temperature.
- ✓ **Compact packaging**
Economize space with 1/8 DIN packaging designed for areas with reduced depth.
- ✓ **Secondary Control**
Relay
- ✓ **Protected dual line display for easy readability**
Dual line display with 4 digits on each line. Large enough for operators to read at a distance. Front panel is dust-proof with IP65 protection.
- ✓ **Simple programming with Crimson® configuration software**
Program multiple units easily with Crimson. No-nonsense configuration is fast and simple through checkboxes and numerical entries.
- ✓ **Runs on DC power**
24 V

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General

| | |
|-----------------------------------|---------------------------------------------------------------|
| Net Weight (g) | 454 |
| Packed Weight (g) | 454 |
| Operating Temperature °C Min | 0 |
| Operating Temperature °C Max | 50 |
| Storage Temperature °C Min | -20 |
| Storage Temperature °C Max | 65 |
| Relative Humidity | 80% max relative humidity (non-condensing) from 0 °C to 50 °C |
| Power Consumption (W) | 8 |
| Input Voltage (V) | 24 VDC |
| Maximum Installation Altitude (m) | 2000 |
| Mounting | Panel mount |
| Panel Cut-Out Dimensions | 1.76" (44.5 mm) x 3.6" (91.5 mm) |
| Housing Materials | Plastic |
| Front Sealing | IP65 requirements for indoor use |
| Packaging Material | Cardboard |
| Warranty (years) | 2 |

Identification and Status

| | |
|-------------------|----------------------------|
| Product ID | PXU31AC0 |
| Country of Origin | Taiwan (Province of China) |
| HS Code | 9032890090 |

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Identification and Status

| | |
|------------|----|
| Dual Usage | No |
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Physical Features

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| Connectors / Input / Output | Terminal, 1x RS485 |
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|--------------|----|
| SD Card Slot | No |
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| Flash Drive | No |
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| Contains Battery | No |
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Display Features

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|--------------|------------------------------------------------|
| Display Size | Line 1 - 0.47" (12 mm); Line 2 - 0.47" (12 mm) |
|--------------|------------------------------------------------|

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| Display Type | LCD |
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| Backlight Type | Orange and Green |
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Certifications and Standards

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| Protection Class IP | IP65 |
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|----------------|-----|
| RoHS Compliant | Yes |
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| CE | Yes |
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| FCC | No |
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| UKCA | Yes |
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| UL | Yes |
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| ATEX | No |
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| DNV | No |
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| KC | No |
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|---------------------|------------------------------------------------------------------|
| Vibration and Shock | Shock: Operational 30 g; Vibration: Operational 10 to 55 Hz, 1 g |
|---------------------|------------------------------------------------------------------|