

P3100 Universal Process Control I/O Module



FEATURES

- Direct replacement for 3000 series product line.
- Universal inputs include Thermocouples, RTD's, mADC, VDC, and mVDC
- Universal Power Supply, 100-240VAC and 24VDC
- Alpha Numeric Display
- Input to Output to Input Power Isolation
- Extended 4 year Warranty

The P3100 universal I/O Module is designed as a direct replacement for the 3000 series line of signal conditioning and alarm units. It can also be used as a stand alone module for new applications.

By using the latest state of the art technology, the P3100 is able to incorporate a wide variety of I/O signal conditioning and alarm applications. These applications cover everything performed by the 3000 series and more. The P3100 can accept a wide variety of inputs including T/C's, RTD's, mADC, VDC, mVDC and frequency. Other features include a universal power supply, 4-character alpha numeric display, simple PC programming and isolation. Whether using the P3100 in a new installation or to replace older existing 3000 series units, your process will be using a product with the latest most reliable technology which is backed up by a full 4-year warranty.

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 **PYRAGON, INC.**

P3100 SPECIFICATIONS

Models Replaced	3510A, 3520A, 3530A, 3540A, 3610A, 3620A, 3630A, 3640A, 3650A, 3660A, 3510DRA, 3520DRA, 3530DRA, 3540DRA, 3610DRA, 3620DRA, 3630DRA, 3640DRA, 3650DRA, 3660DRA, 3510T, 3530T, 3610T, 3630T, 3650T, 3654T, 3900F, 3909F
Input Power	100 to 240VAC 50/60Hz, and 24VDC; +/- 10%, Jumper Selectable
Display	4-Digit 5X7 Matix, plus decimal points LED Display Decimal Point Configurable for 0, 1, 2 or 3 Places
Input Types	Thermocouple: J, K, T, E, R, S, B, L, U, N, RTD: 2 & 3 Wire Pt 100 Ω & JIS, 200, 500 & 1000 Ω , 120 Ω Nickel, 10 Ω Copper Current +/- 20 & +/- 50 Ma DC Voltage: +/- 1 & +/- 10 VDC Millivolts: +/- 70 Millivolts 3 Wire Potentiometer & Resistance: 50, 200 & 2000 Ω Frequency: Counts/Minute, Hz & kHz
Thermocouple Cold Junction Compensation	Standard for Thermocouple Inputs
Output Types	Dual 240 VAC/24 VDC 5A SPDT Relay Contacts 4-20 mADC (600 Ω Load) or 1-5 VDC, 10-50 mADC optional
Display Functions	Input, Alarm State and Relay Trip and Recovery Parameters
Front Panel Push Button, Relay Functions	Trip / Recovery parameters Relay state override, Latch reset, mA output manual mode
Analog Accuracy	+ 0.1% of Span or + 10 μ V Referred to input whichever is greater
Analog Repeatability	+ 0.1% of Span or + 10 μ V Referred to input whichever is greater
Deadband	Configurable for each Relay
Alarm Indication	Via Flashing Display
Latching	Configurable for each Relay
Time Delay	1 to 240 seconds, Configurable for each Relay
Burnout	Configurable for Up or Down Scale
Reverse Output	Configurable
Loop Power Supply	24 VDC supply to power input mA signals up to 21 mA Enabled via jumper
Input Power Fuse	Standard 1.0 A 250 VAC, 3AG Type
Single DPDT Relay	Configurable
Configuration Interface	9 pin RS232 Communication Port via special cable plugged into the front panel 1200 BAUD, 8 + 1 stop bits, no parity; Standard ASCII half duplex
Configuration Memory Retention	Flash Memory
Working Voltage	300 V
Isolation	1000 VDC Input to Output to Input Power
Common Mode Rejection Ratio	120 db
Normal Mode Rejection Ratio	60 db Nominal at 50/60 Hz
Operating Ambient Temperature Range	0-50 C
Ambient Temperature Effect	+ 0.018% of Span or + 18 μ V per C whichever is larger
Connector	Compatible with Buchanan 12 Place Screw Terminal Connector



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