

CAGE/NCAGE Code: 3FNFO

(310) 517-9888 www.icpdas-usa.com

High Quality Data Acquisition and Embedded Control Products



Model I-7021, I-7021P

12-bit/16-bit Analog output Module

I-7000 is a family of network data acquisition and control modules. They provide analog to digital, digital to analog, digital input/output, timer/counter and other functions. The modules can be remotely controlled by a set of commands. The I-7021 is a single-channel analog output module that uses the D/A converter to convert the digital data into analog output signal with 12-bit resolution and

current readback function. The I-7021D is a 7021 with $4\frac{1}{2}$ digit LED display. The I-7021P is similar with I-7021 but enhanced the resolution into 16 bits.

Specifications

Analog Input

- Photo-isolation: 3750 Vrms
- Channels: 1
- Output type: mA, V
- Output range: 0 to 20mA, 4 to 20mA and 0 to 10V
- Effective Resolution: 12-bit for I-7021, 16-bit for I-7021P
- Accuracy: ± 0.1% of FSR for I-7021
 - ± 0.02% of FSR for I-7021P
- Read back accuracy: ± 1% of FSR
- Resolution: ± 0.02% of FSR for I-7021
 - ± 0.002% of FSR for I-7021P
- Zero drift:

Voltage output: ± 30uV/°C for I-7021

± 10uV/°C for I-7021P

Current output: ± 0.2uA/°C

- Span temperature Coefficient: ± 25ppm/ °C for I-7021
 - ± 5ppm/ °C for I-7021P
- Programmable output slope: 0.125 to 1024 mA/second 0.0625 to 512 V/second
- Current load resistance:
 Internal power: 500 ohms
 External 24V: 1050 ohms
- Isolation: 3000V DC

Feature/Benefits

- 3000VDC isolated analog input
- Programmable Power On value of analog output
- Programmable slew rate
- Software calibration
- Dual Watchdog

PIN Assignments

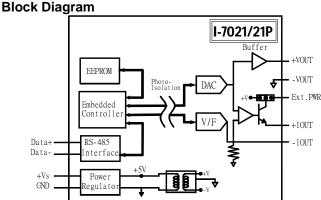
1 11 1 7 133191111101113			
+IOUT	1		
-IOUT			
+VOUT			
-VOUT			
Ext.PWR			
INIT*			
(Y)DATA+			
(G)DATA-			
(R)+Vs			
(B)GND	10		

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RS-485 Connector

Asynchronous 2-wire half-duplex Pluggable terminal block: Pitch 5.08mm

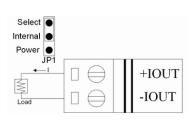
Baud Rate

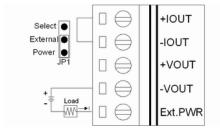
1.2K/2.4K/4.8K/9.6K/19.2K/38.4K/57.6K/115.2K bps

Wire Connection Voltage output



current output





Power Requirements

Power input: +10~+30Vdc input

Power Consumption

1.8Watt for I-7021,I-7021P

Environmental

Storage temperature: -25°C to 80°C Operation temperature: -20°C to 75°C Humidity: 5 to 95%, non-condensing

