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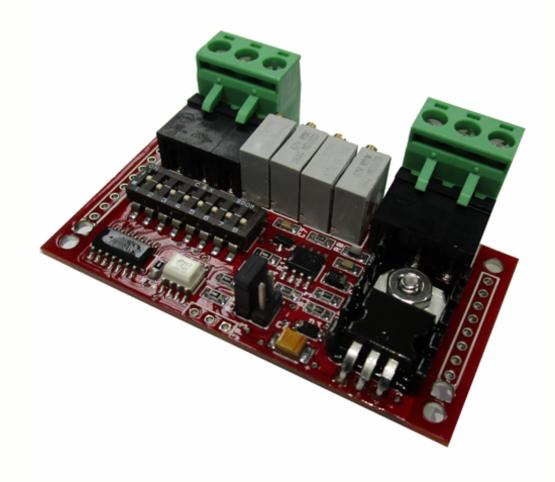
Digital to Analog Converter PCA121 Series

INTRODUCTION

The PCA121 Digital to Analog Converter is a convenient and low cost device that will provide current and/or voltage based analog output from pulsed signals when these are needed to drive plotters, recorders, printers, and other data acquisition equipment.

Its intended use is with sensors, pre-amplifiers, and other devices that produce digital, pulsed output when analog output is also desired.

The PCA121 can be used, for example, with our Digi-Pulse and Magnetic sensors, as well as our PA1001A series of pre-amplifiers. The PCA121 can also be used with or Intrinsically Safe products when it is mounted on the "safe" side of the barrier.



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Specifications

Input Power : • Voltage: 8-30 Vdc

Reverse polarity protected

Pulse Input: • Frequency range: 0 to 12.8 kHz

• Pulse Type: 0 to 5 TTL/CMOS (other types of pulse inputs

also available; contact factory for details)Max. distance from sensor to preamp: 100'

Current Output : • Accuracy +/- 0.05% of full-scale +/-200 PPM/°C.

• Available range 4 to 20 mA.

• Output suitable for driving, floating or grounded loads.

Maximum loop impedance 500 ohms.
Response time 0.3 seconds for 10 to 90 %.

Voltage Output : • Accuracy +/- 0.05% of full-scale +/-200 PPM/°C.

Available range 0 to 5Vdc or 0 to 10Vdc, user

selectable.

• Impedance less than 10 ohms.

 \bullet Response time 0.3 seconds for 10 to 90 %

Temperature Range : • Operating: -40 TO 85°C (-40° to 185°F)

• Storage: -40° to 302°F (-40 TO 150°C)

Physical Dimensions • 2.58" x 1.5" x 0.41"

Enclosures :• Unit is intended for mounting in a conduit box. Custom configuration for other

housings available. Enclosure is not requried but is recommended to protect unit

from moisture, dirt, etc.

Terminal Block 2

Connections and

• Pulse (+): terminal 1

• Common (-): terminal 2

• Power (+): terminal 3

Analog Output: Terminal Block 1

Voltage (+): terminal 1Common (-): terminal 24-20 mA (+): terminal 3

Type:

• Screw-down (optional Phoenix type with mating connector also available)

Approvals: • CE compliant to EMC Directive 89/336/EEC for use in residential,

commercial, light industrial and heavy industrial environments.

Warranty:
 Unconditional one (1) year warranty if used within specifications

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Enclosure:

IFS

Q1289PCD, NEMA-4X

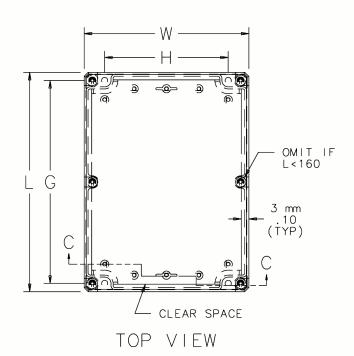
Manufacturer: **Hoffman**

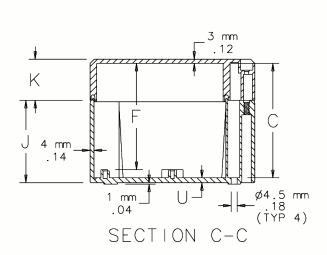
APPLICATION

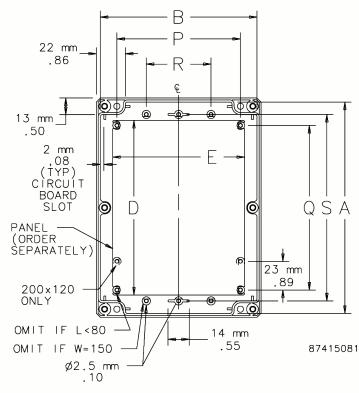
- QLINE D polycarbonate and ABS enclosures have contoured bodies with flush cover screws for an attractive, contemporary appearance.
- Tough as well as stylish, they are functional in corrosive environments and can withstand occasional submersion.
- The ABS series shared the same features and similar physical properties as the polycarbonate but is a more economical, non-UL rated alternative.

Standard Product Polycarbonate

Catalog Number	AxBxC mm/in.	Cover Style	External Dimensions L x W mm/in.	Panel	Panel Size D x E mm/in.	Mounting G x H mm/in.	F mm/in.	J mm/in.	K mm/in.	P mm/in.	Q mm/in.	R mm/in.	S mm/in.	U mm/in.
Q1289PCD	113 x 73 x 79	Opaque	120 x 80 4 72 x 3 15	Q128PD	91 x 65 3 58 x 2 56	108 x 50 4 25 x 1 97	72 2.83	70 2.76	15 n 59	58 2.28	82 3.23		96 3.78	3 0.12







TOP VIEW WITH COVER REMOVED

www.IFSTech.org

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Enclosure:

HKB/HFC Explosion Proof

Manufacturer: **Hubbell Killark**

HK COMPONENT PARTS							
CATALOG NUMBER	DESCRIPTION						
НКВ	Single cover box only						
НГС	Flat cover						

APPLICATION

- Instrumentation housed in HK Series enclosures typically used to measure, transmit and control industrial processes and systems
- HK Series enclosures are suitable for a broad range of applications, meeting both domestic and international code requirements.
- Enclosures are explosion proof, dust/ignition proof, weather proof and tamper resistant
- HK Series boxes covers are cast from a copper-free aluminum alloy.

ATEX/IECEx Certified

IECEX UL 14.0071U DEMKO 01 ATEX 15742U

€ 112 G / D

Ex db IIC Gb, Ex tb IIIC Db IP66
Ta = -60°C to +70°C for GL (glass) lenses
Ta = -60°C to +70°C for blank covers

Class I, Div. 1 & 2, Groups A*, B, C, D† Class I, Zones 1 & 2, Groups IIB + H2, IIA Class II, Div. 1 & 2, Groups E, F, G Class III, Type 3, 4, 4X

HK Design Features

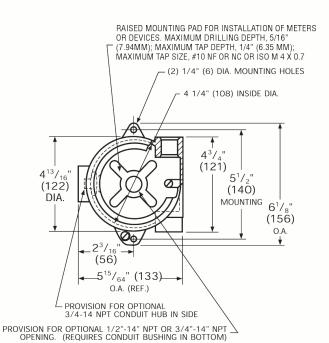




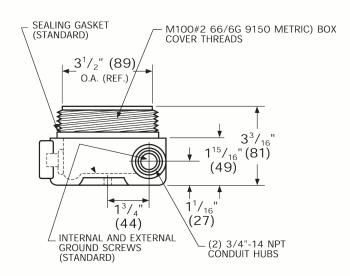
Standard Flat Cover



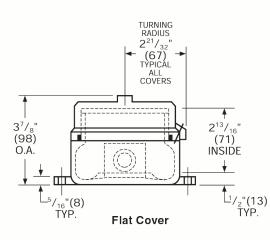
HFC Blank



HKB Volume: 31 cu. in.

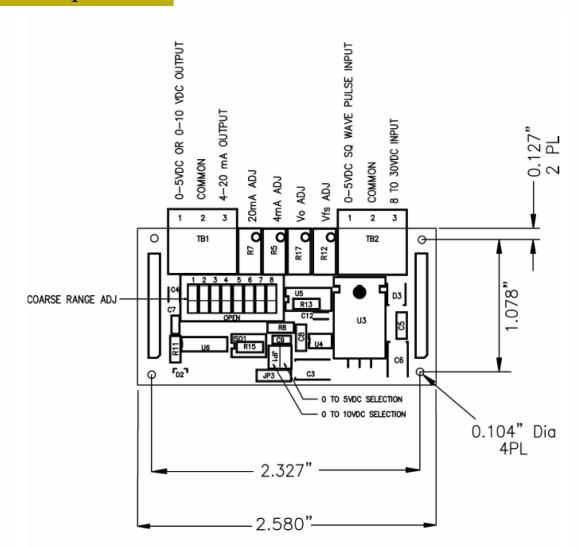


HKB box and blank cover

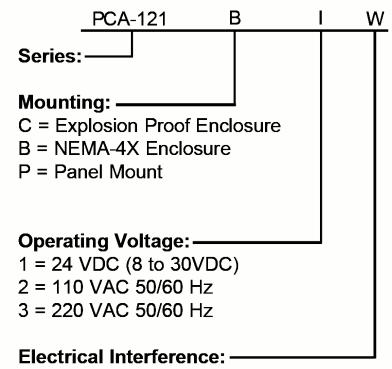


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Wiring for Analog Converters with Digi-Pulse Pickup



Ordering Information



W = Mounted Integral to Flowmeter

X = 10 feet cable attached to mating connector