# Honeywell CC-PDOB01

CC-PDOB01 | Honeywell | Digital Output 24V Module

Manufacturer : Honeywell

Product No. : CC-PDOB01

Product type : Digital Output 24V Module

Digital Output 24V Bussed Out 32 Card

Output Channels: 32

Load Voltage: 30VDC Maximum

Galvanic Isolation: 1500 VAC RMS or Â±1500 VDC

On-State Voltage: 24 V (typ), load current @ 0.5A

Off-State Voltage: 0V VDC (max) (3.3 VDC(max) indicated under no-load condition)

Off-State Leak Current: 0.5 µA (max)

Turn-On/Turn-Off Time: 10 ms (max)

EXPERION
24 VDC
FIELD ISOLATED
BUSSED - COMMON RETURN
32 CHANNELS
SOURCING
DO24V

Function
The Digital Output bussed 24VDC (DO24V) module provides reliable 24V digital output signals to control other process
equipment as well as solenoid valves and interposing relays. The DO24V can support high energy outputs to reduce the
number of external components in the output loop.

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Notable Features

- Extensive internal diagnostics to ensure data integrity
- Optional redundancy
- Direct/Reverse output support
- Safe-state (FAILOPT) behaviors
- “Fuse-less” short circuit protection
- Latched, pulsed or pulse-width modulated output (per channel)
- Galvanic isolation

Bussed 24VDC DO

The Digital Output Bussed 24VDC has provisions for both internal and external field power excitation. As a bussed output device, all of the outputs share a common return (ground). All outputs get their power from the same source, which can be either the system power supply or an externally connected 24V power supply. When selection is from an external source, outputs can be galvanically isolated from the Series C power system.

Fuse-less Short Circuit Protection

This unique feature allows a short circuit to exist without blowing any fuses. When a particular channel is shorted, internal circuits detect this and remove power to the field connection. The channel remains de-energized until the short circuit is repaired.

FAILOPT

Series C DO module will support FAILOPT parameter on a per channel basis. The output can be directed by configuration to either HOLD THE LAST VALUE, or SHED to a SAFE VALUE. The safe value can be configured by the user.

## Detail Specifications - Bussed 24VDC DO

* **Input / Output Model**: CC-PDOB01 - 24Volt Digital Output, Field Isolated, Bussed output

* **IOTA Model Numbers**: CC-TDOB01 (Non Redundant, 9") and CC-TDOB11 (Redundant, 12")

* **Output Channels**: 32

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* **Output Type**: Source

* **Load Voltage**: 15 to 30 VDC Maximum

* **Load Current (Absolute Maximum)**:
* Under No Short Condition: 0.5A per channel, 4A per 8 channels, 6A per module

* Under One Short Condition: 0.5A per channel, 3A per 8 channels, 6A per module

* Under Two Short Condition: 0.5A per channel, 1.5A per 8 channels, 6A per module

* **Galvanic Isolation**: 1500 VAC RMS or $\pm 1500$ VDC

SpareTech PLC

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## Experion Series-C I/O Specification, EP03-490-520

* **On-State Voltage**: 24 V (typ), load current @ 0.5A

* **Off-State Voltage**: 0v VDC (max) (3.3VDC (max) indicated under no-load condition)

* **Off-State Leak Current**: 5.0 µA (max)

* **Turn-On/Turn-Off Time**: 10 ms (max)

* **Gap (0 current) of Output to Field on Switchover**: None (0ms) (applies to Redundancy only)

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* **Output voltage**: Will be the Source Voltage - 150mV maximum

* **Note 1**: One / Two Short Condition parameter denotes the maximum current that can be passed through the DO with the short

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