



Ovation™ 32 Channel Digital Output Module

(5X00500G01/1X0069H01)

Features

- 32 current sourcing outputs
- Switch the positive 24 VDC power to an external load (relays)
- Field power source using cabinet auxiliary 24 VDC power
- +/- 1000 VDC galvanic isolation voltage (field to logic)
- Module hot-swap capability
- Field power presence detection capability
- Stored electronic ID information for module type, group, serial number and revision
- Software configurable communication time out period and action to outputs reset or latch
- Inductive kick protection



Overview

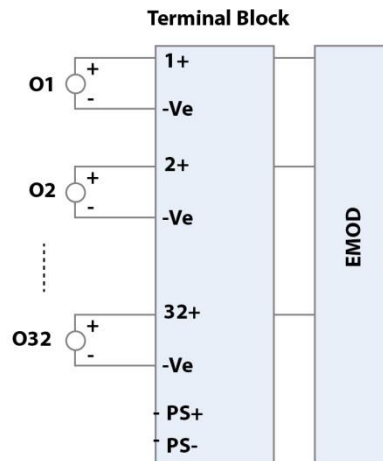
Each of the 32 digital output channels in this Ovation™ module is capable of sourcing up to 500 mA of output current with a 2 A maximum total output current limit.

A 4-module I/O base (part number – 5X00497G01) is required with the 32-channel digital output module, which provides additional wire terminations to support the 32 channels.

Maintenance and Diagnostics

Standard LED status indicators for:

- Module power OK
- Communication OK
- External fault (if 24 VDC field power is not present, is below threshold or the auxiliary 24 VDC fuse is blown)
- Module internal fault
- Individual output status for channels 1 to 32



Specifications

32 Channel Digital Output Module Specifications	
Channel Specification	
Channels per module	32
Output type	IEC 61131-2 protected output current sourcing DC output
Maximum output current per channel	500 mA max, with 2 A max for total 32 channels
Module Specifications	
Module power dissipation	4.05 watts max
Galvanic isolation	+/- 1,000 VDC between field to logic
Operating temperature range	0°C to 60°C (32°F to 140°F)
Humidity (non-condensing)	0 to 95%
Electrical Interface Standards	
Electrostatic discharge immunity test	EN 61000-4-2, 4 kV contact discharge, 8 kV air discharge
Radiated, radio-frequency, electromagnetic field immunity test	EN 61000-4-3, 80 MHz to 1000 MHz carrier wave field strength of 10 V RMS/m with sinusoidal amplitude modulation of 1 kHz @ 80% modulation depth
Fast transient/burst immunity test	EN 61000-4-4, 1 kV peak
Surge immunity test	EN 61000-4-5 Surge immunity test, 1 kV peak (common mode)
Immunity to conducted disturbances induced by RF	EN 61000-4-6, 150 kHz to 80 MHz carrier wave field strength of 3 V (TBD) RMS with sinusoidal amplitude modulation of 1 kHz @ 80% modulation depth and a source impedance of 150 ohms
Surge withstand immunity	ANSI/IEEE C37.90.1-1989 IEEE Standard Surge Withstand Capability (SWC)
Radio frequency emissions	ENV 55011 Limits and Methods of Measurement of Radio Disturbance Characteristics of Industrial, Scientific and Medical (ISM) Radio-Frequency Equipment
Safety Standards	
EN 61010-1	Safety Requirements for Electrical Equipment for Measurement, Control & Laboratory Use

©2017-2018 Emerson. All rights reserved. The Emerson logo is a trademark and service mark of Emerson Electric Co. Ovation™ is a mark of one of the Emerson Automation Solutions family of business units. All other marks are the property of their respective owners. The contents of this publication are presented for information purposes only, and while effort has been made to ensure their accuracy, they are not to be construed as warranties or guarantees, express or implied, regarding the products or services described herein or their use or applicability. All sales are governed by our terms and conditions, which are available on request. We reserve the right to modify or improve the designs or specifications of our products at any time without notice.