Standard Voltage Output Module

Features

▶ Provides a single channel of optically-isolated digital-to-voltage conversion

▶ "T" module is transformer isolated which eliminates any ground loop problems

▶ The modules are available in uni-polar and bi-polar versions

Description

The voltage output analog module provides a single channel of optically-isolated digital-to-voltage conversion. The "T" modules are transformer isolated, which eliminates any ground loop problems. The modules are available in uni-polar and bi-polar versions. Modules plug into a Standard analog I/O rack and are secured by a captive screw.

Specifications

	DA4	DA4T	DA5	DA6	DA7	DA7T
Output Voltage	0 to 5 VDC	0 to 5 VDC	0 to 10 VDC	-0 to +5 VDC	-10 to +10 VDC	-10 to +10 VDC
Accuracy	±5 mV	±5 mV	±10 mV	±10 mV	±20 mV	±20 mV
Power Requirements	20 mA at +15 (+/-0.25) VDC 10 mA at -15 (+/-0.25) VDC	35 mA at +15 (+/-0.25) VDC 35 mA at -15 (+/-0.25) VDC	20 mA at +15 (+/-0.25) VDC 10 mA at -15 (+/-0.25) VDC	20 mA at +15 (+/-0.25) VDC 10 mA at -15 (+/-0.25) VDC	20 mA at +15 (+/-0.25) VDC 10 mA at -15 (+/-0.25) VDC	20 mA at +15 (+/-0.25) VDC 10 mA at -15 (+/-0.25) VDC

|	
Output Current DA4, DA5, DA6, DA7 DA4T, DA7T	70 mA 25 mA
Output Response Time	Full-scale step change in 3 ms
Resolution	12 bits
Isolation Input-to-Output Input-to-Analog Supply	4,000 Vrms (Transient) 4,000 Vrms
Temperature Operating Storage	0 °C to 70 °C - 25 °C to 85 °C

Part Numbers

Part	Description
DA4	0 to +5 VDC Analog Output
DA4T	0 to +5 VDC Analog Output, Isolated
DA5	0 to +10 VDC Analog Output
DA6	-5 to +5 VDC Analog Output
DA7	-10 to +10 VDC Analog Output
DA7T	-10 to +10 VDC Analog Output, Isolated

Standard Voltage Output Module

Connections

Voltage Output Connection Diagram
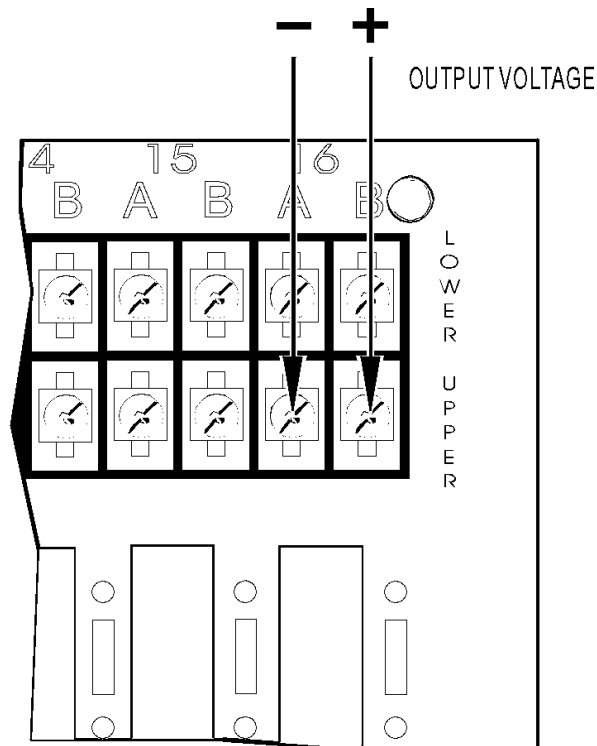
More About Opto 22

Products

Opto 22 develops and manufactures reliable, easy-to-use, open standards-based hardware and software products deployed worldwide.

Industrial automation, process control, building automation, industrial refrigeration, remote monitoring, data acquisition, Industrial Internet of Things (IIoT), and information technology applications all rely on Opto 22.

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Monitor and control your equipment from anywhere using your smartphone or tablet with groov. Build your own mobile app easily—just drag, drop, and tag. No programming or coding. Visit groov.com for more information and your free trial.

SNAP PAC System

Developer- and IIoT-ready, the SNAP PAC System connects physical assets to databases and applications using open standards. The SNAP PAC System consists of four integrated components:

- SNAP PAC controllers
- PAC Project™ Software Suite
- SNAP PAC brains
- SNAP I/O™

SNAP PAC Controllers

SNAP PAC programmable automation controllers handle a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

For IIoT applications and easier integration with company systems, standalone and rack-mounted SNAP PACs include a built-in HTTP/HTTPS server and **RESTful API** (application program interface). The REST API gives you secure, direct access to I/O and variable data using your choice of programming languages. No middleware, protocol converters, drivers, or gateways needed.

Based on open Ethernet and Internet Protocol (IP) standards, SNAP PACs make it easier to build or extend a system without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

Opto 22's PAC Project Software Suite offers full-featured, cost-effective control programming, HMI (human machine interface), OPC server, and database connectivity software.

Control programming includes both easy-to-learn flowcharts and optional scripting. Commands are in plain English; variables and I/O point names are fully descriptive.

PAC Project Basic offers control and HMI tools and is free for download on our website, www.opto22.com. PAC Project Professional, available for separate purchase, adds one SoftPAC software-based controller, OptoOPCServer, OptoDataLink, options for controller redundancy or segmented networking, and support for legacy Opto 22 serial *mistic*™ I/O units.

SNAP PAC Brains

While SNAP PAC controllers provide central control and data distribution, SNAP PAC brains provide distributed intelligence for I/O processing and communications. Brains offer analog, digital, and serial functions, including thermocouple linearization, local PID loop control, watchdog, totalizing, and much more.

SNAP I/O

I/O provides the local connection to sensors and equipment. Opto 22 SNAP I/O offers 1 to 32 points of reliable I/O per module. Analog, digital, and serial modules are mixed on one mounting rack and controlled by a SNAP PAC brain or rack-mounted PAC.

Quality

Founded in 1974, Opto 22 has established a worldwide reputation for high-quality products. All are made in the U.S.A. at our manufacturing facility in Temecula, California.

Because we test each product twice before it leaves our factory, rather than only testing a sample of each batch, we can guarantee most solid-state relays and optically isolated I/O modules for life.

Free Product Support

Opto 22's California-based Product Support Group offers free, comprehensive technical support for Opto 22 products from engineers with decades of training and experience. Support is available in English and Spanish by phone or email, Monday–Friday, 7 a.m. to 5 p.m. PST.

Additional support is always available on our website: how-to videos, OptoKnowledgeBase, self-training guide, troubleshooting and user's guides, and OptoForums.

In addition, hands-on training is available for free at our Temecula, California headquarters, and you can register online.

Purchasing Opto 22 Products

Opto 22 products are sold directly and through a worldwide network of distributors, partners, and system integrators. For more information, contact Opto 22 headquarters at 800-321-6786 (toll-free in the U.S. and Canada) or 951-695-3000, or visit our website at www.opto22.com.