

Standard Analog 28 to 140 VAC Input Module

Features

- Single channel of optically-isolated voltage-to-digital conversion
- Transformer isolated from the analog power supply
- Suitable for monitoring line voltage when connected to the appropriate voltage transformer

Description

The AD15T module provides a single channel of optically-isolated voltage-to-digital conversion with 4,000 Vrms transient-isolation. The AD15T is transformer isolated from the analog power supply so that it may operate with 1,500 volts between the input terminals and analog common. The AD15T is suitable for monitoring line voltage when connected to the



appropriate voltage transformer. The module reads the average voltage. Fusing the input lines is recommended. Modules plug into any Standard Analog I/O mounting rack and are secured by a captive screw. Field connections to the module are made via terminals located on top of the module.

Specifications

Input Range	28 to 140 VAC
Input Under/Over Range	25 to 280 VAC
Resolution	27 mVAC
Input Response Time	full scale step change in 1.5 seconds
Input Impedance	270 k ohms
Maximum Differential Input	280 VAC
Accuracy	0.5%
Isolation: Input-to-Logic Output Module-to-Module	4,000 Vrms (optically coupled) 1,500 Vrms (transformer coupled)
Power Requirements	35 mA at +15 (+/- 0.25) VDC 35 mA at -15 (+/- 0.25) VDC
Ambient Temperature: Operating Storage	0 to 70 °C - 25 to 85 °C

Part Numbers

Part	Description
AD15T	28 to 140 VAC Input Isolated

OPTO 22

Standard Analog 28 to 140 VAC Input Module

DATA SHEET
Form 497-111026

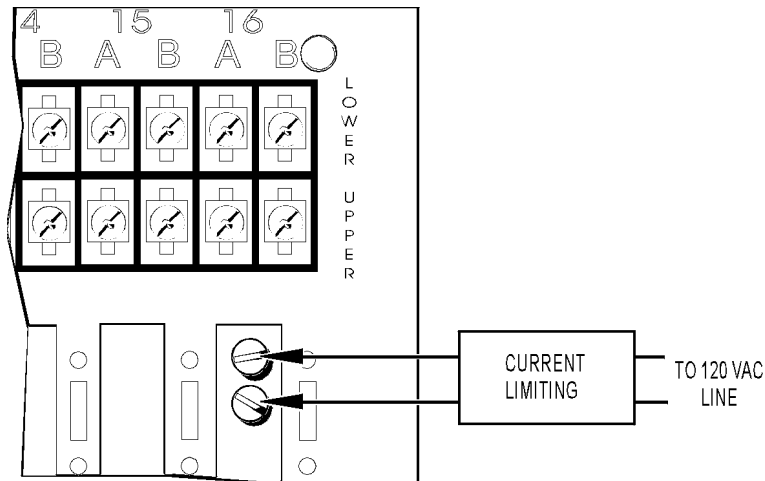
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Connections

AD15T Field Connection



More About Opto 22

Products

Opto 22 develops and manufactures reliable, flexible, easy-to-use hardware and software products for industrial automation, energy management, remote monitoring, and data acquisition applications.

OptoEMU Energy Management System

The easy-to-use OptoEMU Sensor monitors electrical energy use in your facility and delivers detailed, real-time data you can see and analyze. The Sensor can monitor energy data from pulsing meters, electrical panels or subpanels, and equipment. View energy data online using a software service or incorporate the data into your control system for complete energy management.

SNAP PAC System

Designed to simplify the typically complex process of selecting and applying an automation system, 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

Programmable automation controllers (PACs) are multifunctional, modular controllers based on open standards.

Opto 22 has been manufacturing PACs for over two decades. The standalone SNAP PAC S-series and the rack-mounted SNAP PAC R-series both handle a wide range of digital, analog, and serial functions for data collection, remote monitoring, process control, and discrete and hybrid manufacturing.

SNAP PACs are based on open Ethernet and Internet Protocol (IP) standards, so you can build or extend a system easily, without the expense and limitations of proprietary networks and protocols.

PAC Project Software Suite

Opto 22's PAC Project Software Suite provides full-featured, cost-effective control programming, HMI (human machine interface) development and runtime, OPC server, and database connectivity software for your SNAP PAC System.

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

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; PID loop control; and optional high-speed digital counting (up to 20 kHz), quadrature counting, TPO, and pulse generation and measurement.

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, depending on the type of module and your needs.

Analog, digital, and serial modules are all mixed on the same mounting rack and controlled by the same processor (SNAP PAC brain or rack-mounted controller).

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 do no statistical testing and each part is tested twice before leaving our factory, 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. Our staff of support engineers represents 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 or 951-695-3000, or visit our website at www.opto22.com.

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