ADAM-4150
ADAM-4168
ADAM-4914V

Digital I/O module
Relay Output Module
4-channel Voltage Input Surge Protection Module

NEW

ADAM-4150
NEW

ADAM-4168
NEW

ADAM-4914V

Specifications

Digital Input/Output
- Channels
  7 input channels
  8 output channels
- Digital Input
  Dry contact: Logic level 0: Close to GND.
  Logic level 1: Open
  Wet contact: Logic level 0: +3 V max.
  Logic level 1: +0 V to +30 V
- Isolation Voltage
  3000 VDC
  - Support 3 kHz counter
- Digital Output
  Open drain to 40 V
  0.8A max.
  Maximum power dissipation: 1 W load
  Ron Maximum: 150m ohm
  Supports 1 kHz pulse output
- Power Consumption
  0.4 W (Typical)
  0.7 W (Max)
- Watchdog Timer
  System, Communication

Specifications

Relay Output
- Output Channels
  8 Form A
- Contact Rating
  AC: 125 V @ 0.6 A
  DC: 30 V @ 2 A
- Breakdown Voltage
  750 VAC (50/60 Hz)
- Insulation Resistance
  1 GΩ min. @ 500 VDC
- Power Consumption
  0.4 W (Typical)
  1.8 W (Max.)
- Relay Response Time
  ON: 3 ms
  Off: 1 ms (typical)
- Total Switching Time
  10 ms
- Supports 100 Hz pulse output
- Watchdog Timer
  System, Communication

Specifications

Input
- Channels
  4 differential voltage input and thermocouple
- Discharge Current
  5,000 A (8/20 usec.)
- Discharge Voltage
  BETWEEN LINES: 18 V min
  LINE TO GND: 350 V max.
- Internal Series Resistance
  Approx. 20 Ω including return
- Max. Surge Voltage
  BETWEEN LINES: 23 V min
  LINE TO GND: +4,000 V max.
- Leakage Current
  BETWEEN LINES:
  ≤ 10 µA @ 7.5 VDC
  LINE TO GND:
  ≤ 5 µA @ +140 VDC
- Maximum Line Voltage
  10 V
- Response Time
  ≤ 0.1 usec.

Common Specifications

- Dimensions
  70 x 122 x 30 mm
- Enclosure
  ABS+PC
- Mounting
  DIN 35 rail, stack, wall
  Unregulated 10–48 VDC
- Power Input
  1.6 sec. (system)
- Watchdog Timer
  2 x Plug-in terminal blocks (#14 – 22 AWG)
- Connector

Environment
- Humidity
  5 – 95% RH
- Operating Temperature
  4914V: -10–70 °C
  (14 – 158° F)
  4150/4168: -40 – 85 °C
  (-40 – 185° F)
- Storage Temperature
  4914V: -25 – 85°C
  (-13 – 185° F)
  4150/4168: -40 – 85°C
  (-40 – 185° F)

Ordering Information

- ADAM-4150
  Digital I/O Module
- ADAM-4168
  Relay Output Module
- ADAM-4914V
  4-channel Voltage Input Surge Protection Module

Remote DA&C Modules
All product specifications are subject to change without notice
Last updated : 9-Mar-2005
Introduction

The ADAM-4950-ENC IP66 Industrial Enclosure is designed for use in harsh environments. It offers space for 1 to 3 ADAM modules. Its rugged protective housing guards modules from UV radiation, corrosive materials, moisture and extreme temperatures.

Features

- Resists temperatures up to 115° C (239° F)
- Sidewall knockouts provide factory molded openings that are conveniently positioned for wire, cable or conduit feeders.
- Groove-and-lip type seal design provides the highest degree of protection
- Built-in DIN-rail for easy mounting of ADAM modules
- Cable glands included

Dimensions

Enclosure Components

- Case
  - Glass filled polycarbonate (PC), transparent cover
- Accessories (included)
  - 1 x DIN-rail (21.5 cm)
  - 2 x Polyamide cable glands
  - (seal from 10 - 14 mm)
  - 4 x Captive lid screws

Ordering Information

- ADAM-4950-ENC  IP66 Industrial Enclosure
ADAM 4000/4100 Series

Common Specifications

Communication
- RS-485 (2-wire) to host
- Speeds: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps (ADAM-4080, ADAM-4080D only support up to 38400 bps)
- Max. communication distance: 4000 feet (1.2 km)
- Power and communication LED indicator
- ASCII command/response protocol
- Communication error checking with checksum
- Asynchronous data format:
  - Advantech protocol: 1 start bit, 8 data bits, 1 stop bit, no parity
  - Modbus protocol: 1 start bit, 8 data bits, 1 or 2 stop bit, parity check (none, odd, even) (ADAM-4100 series only)
- Up to 256 multidrop modules per serial port
- Online module insertion and removal
- Transient suppression on RS-485 communication lines

Dimensions

Unit: mm

- Front View
- Rear View
- Side View
- Panel Mounting Bracket
- Top View
- DIN-Rail Mounting Adapter