

ADAM-4150

ADAM-4168

ADAM-4914V

Digital I/O module

Relay Output Module

4-channel Voltage Input Surge Protection Module



ADAM-4150



ADAM-4168



ADAM-4914V

Specifications

Digital Input/Output

- **Channels** 7 input channels
8 output channels
- **Digital Input (Supports 3 kHz counter)**
Dry contact: Logic level 0: Close to GND.
Logic level 1: Open
Wet contact: Logic level 0: +3 V max.
Logic level 1: +10 V to +30 V
- **Isolation Voltage** 3000 V_{DC}
- **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
250 V @ 0.3A
DC: 30 V @ 2 A
110 V @ 0.6 A
- **Breakdown Voltage** 750 V_{AC} (50/60 Hz)
- **Insulation Resistance** 1 G Ω min. @ 500 V_{DC}
- **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
- **Performance**
- **Discharge Current** 5,000 A (8/20 μsec.)
- **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 V_{DC}
LINE TO GND:
≤ 5 μA @ +140 V_{DC}
- **Maximum Line Voltage** 10 V
- **Response Time** ≤ 0.1 μsec.

Common Specifications

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

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

