

# ADAM-4914V 4-channel Voltage Input Surge Protection Module

## Startup Manual

### Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- 1 x ADAM-4914V with DIN-rail mounting bracket
- 1 x ADAM-4914V Startup Manual
- 1 x Panel Mounting Bracket

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

### Overview

ADAM-4914V is a 4-channel surge protector for voltage inputs. It offers surge protection between field signal sources (sensor, transmitter, etc.) and I/O modules, controllers, etc.

Please refer to the wiring diagram below to get started. For more details, please refer to the ADAM-4000 Manual.

### Specifications

- **Input Channels:** 4 differential voltage input and thermocouple
- **Discharge Voltage:**  
Between Lines: 18 V min  
Line to GND: 350 V max.
- **Max. Surge Voltage:**  
Between Lines: 23 V min.  
Line to GND: +4,000 V max.
- **Leakage Current:**  
Between Lines:  $\leq 10 \mu\text{A}$  @ 7.5 VDC  
Line to GND:  $\leq 5 \mu\text{A}$  @ +140 VDC
- **Response Time:**  $\leq 0.1 \mu\text{sec}$ .
- **Discharge Current:** 5,000 A (8/20  $\mu\text{sec}$ .)
- **Internal Series Resistance:** Approx. 20  $\Omega$  including return
- **Maximum Line Voltage:** 10 V
- **Certifications:** CE
- **Warranty:** 2 years

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eAutomation>

For technical support and service, please visit our support website at:

<http://service.advantech.com.tw/eservice/>

This manual is for ADAM-4914V.

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## Wiring Diagram

