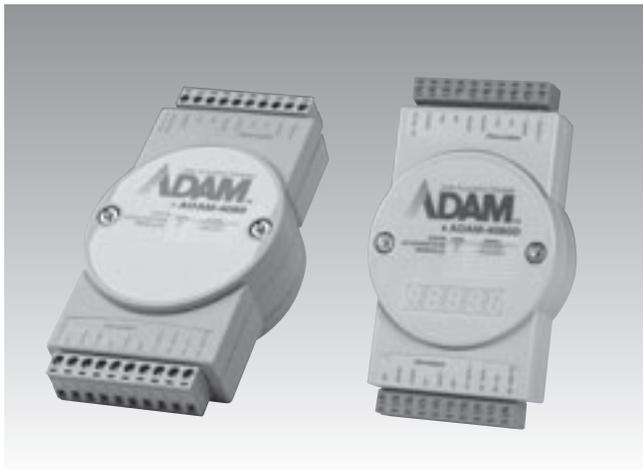


# ADAM-4080/4080D

# ADAM-4914V

**2-ch Counter/Frequency Modules (with 7-segment LED Display)**  
**4-ch Voltage Input Surge Protection Module**



ADAM-4080/4080D



## Specifications

### General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 22 AWG)
- **Power Consumption** 2.0 W @ 24 V<sub>DC</sub>
- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Humidity** 5 ~ 95% RH
- **Operating Temperature** -10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)
- **Watchdog Timer** System (1.6 second)
- **Support Protocol** ASCII command
- **LED Indicators** 5-digit readout, CH 0 or CH 1 (programmable) (ADAM-4080D only)

### Counter Input

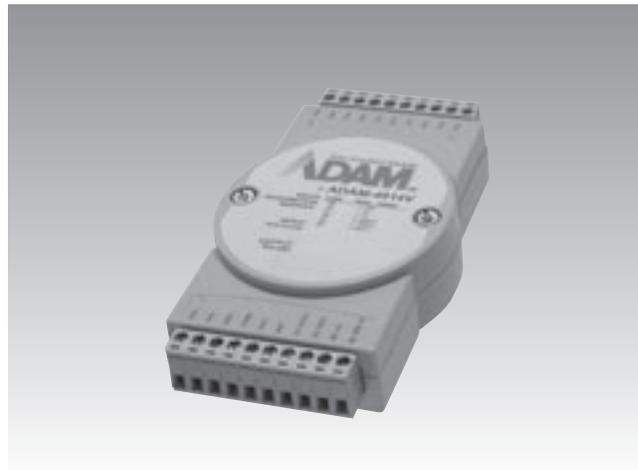
- **Channels** 2 independent 32-bit counters
- **Input Frequency** 50 kHz max. (non-isolation)
- **Input Pulse Width** >10  $\mu$ s.
- **Input Mode** Isolated or non-isolated
- **Isolated Input Level** Logic level 0: +1 V max.  
Logic level 1: 3.5-30 V
- **Isolation Voltage** 2500 V<sub>RMS</sub>
- **Non-isolated Input Level** Programmable threshold:  
Logic level 0: +0.8 V max.  
Logic level 1: 2.4 ~ 5.0 V
- **Maximum Count** 4,294,967,295 (32 bits)
- **Preset Type** Absolute or relative (ADAM-4080 only)
- **Programmable Digital Noise Filter** 2  $\mu$ s ~ 65 ms
- **Alarm** ADAM-4080: Alarm comparators on each counter  
ADAM-4080D: High and Low comparators on counter 0

### Frequency Measurement

- **Range** 5 Hz ~ 50 kHz
- **Programmable Built-in Gate Time** 1 or 0.1 second

### Digital Output

- **Channels** 2
- **Open Collector** 30 V, 30 mA max. load
- **Power Dissipation** 300 mW for each channel



ADAM-4914V



## Specifications

### General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 22 AWG)
- **Humidity** 5 ~ 95% RH
- **Operating Temperature** -10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)
- **Input Channels** 4 differential voltage and thermocouple input

### Performance

- **Discharge Current** 5000 A (8/20  $\mu$ sec.)
- **Discharge Voltage** Between Lines: 18 V min.  
Line to GND: 350 V max.
- **Internal Series Resistance** Approx. 20  $\Omega$  including return
- **Max. Surge Voltage** Between Lines: 23 V min.  
Line to GND: +4,000 V max.
- **Leakage Current** Between Lines:  $\leq$  10  $\mu$ A @ 7.5 V<sub>DC</sub>  
Line to GND:  $\leq$  5  $\mu$ A @ +140 V<sub>DC</sub>
- **Maximum Line Voltage** 10 V
- **Response Time**  $\leq$  0.1  $\mu$ sec.

## Ordering Information

- **ADAM-4080/4080D** 2-ch Counter/Frequency Modules (with 7-segment LED Display)
- **ADAM-4914V** 4-ch Voltage Input Surge Protection Module