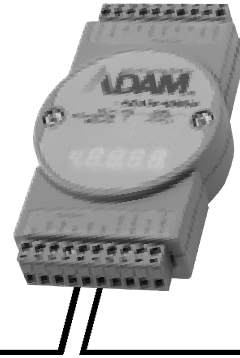


ADAM-4060
ADAM-4080
ADAM-4080D

Relay Output Module
Counter/Frequency Module
Counter/Frequency Module with LED Display



ADAM-4060 Relay Output Module

Relay Output

- **Channels:** 4-channels relay, two Form A and two Form C
- **Contact rating:**
AC: 125 V @ 0.6 A; 250 V @ 0.3 A
DC: 30 V @ 2 A; 110 V @ 0.6 A
- **Breakdown voltage:**
500 V_{AC} (50/60 Hz)
- **Relay on time (typical):** 3 msec.
- **Relay off time (typical):** 1 msec.
- **Total switching time:** 10 msec.
- **Insulation resistance:**
1000 M Ω minimum at 500 V_{DC}

Built-in Watchdog Timer

Power

- **Power requirements:**
Unregulated +10 ~ +30 V_{DC}
- **Power consumption:** 0.8 W

ADAM-4080 Counter/Frequency Module

Counter Input

- **Channels:**
Two independent 32-bit counters
- **Input frequency:** 50 kHz max.
- **Input mode:** Isolated or non-isolated
- **Isolation input level:**
Logic level 0: +1 V max.
Logic level 1: +3.5 V ~ +30 V
- **Isolation voltage:** 2500 V_{RMS}
- **Non-isolated input level:**
Programmable threshold:
Logic level 0: 0 to +5 V (default = 0.8 V)
Logic level 1: 0 to +5 V (default = 2.4 V)
- **Input pulse width:** >10 μ sec.
- **Maximum count:**
4,294,967,295 (32 bits)
- **Programmable digital noise filter:**
2 μ sec. ~ 65 msec.
- **Alarm:** Alarm comparator on each counter
- **Preset type:** Absolute or relative

Frequency Measurement

- **Range:** 5 Hz ~ 50 kHz
- **Programmable built-in gate time:**
1.0/0.1 sec.

Digital Output

- **Channels:** 2
Open collector to 30 V, 30 mA max. load
Power dissipation: 300 mW for each channel

Built-in Watchdog Timer

Power

- **Power requirements:**
Unregulated +10 ~ +30 V_{DC}
- **Power consumption:** 2.0 W

ADAM-4080D Counter/Frequency Module with LED Display

Counter Input

- **Channels:**
Two independent 32-bit counters
- **Input frequency:** 50 kHz max.
- **Input mode:** Isolated or non-isolated
- **Isolation input level:**
Logic level 0: +1 V max.
Logic level 1: +3.5 V ~ +30 V
- **Isolation voltage:** 2500 V_{RMS}
- **Non-isolated input level:**
Programmable threshold:
Logic level 0: 0 ~ +5 V (default = 0.8 V)
Logic level 1: 0 ~ +5 V (default = 2.4 V)
- **Input pulse width:** >10 μ sec.
- **Maximum count:**
4,294,967,295 (32 bits)
- **Programmable digital noise filter:**
2 μ sec. ~ 65 msec.
- **Alarm:** High and low alarm comparators on counter 1

Frequency Measurement

(See specifications of ADAM-4080)

Display

- **LED indicator:** 5-digit readout,
CH 0 or CH 1 (programmable)

Digital Output

(See specifications of ADAM-4080)

Built-in Watchdog timer

Power

- **Power requirements:**
Unregulated +10 ~ +30 V_{DC}
- **Power consumption:** 2.0 W