

ADAM-4017+ ADAM-4018+ ADAM-4018M

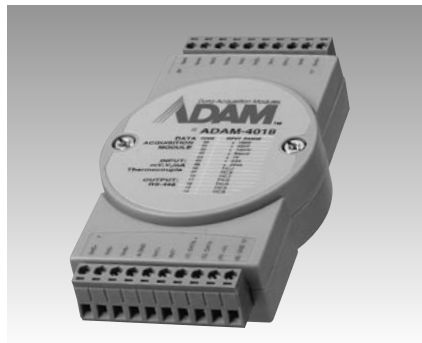
8-channel Analog Input Module with Modbus®

8-channel Thermocouple Input Module with Modbus®

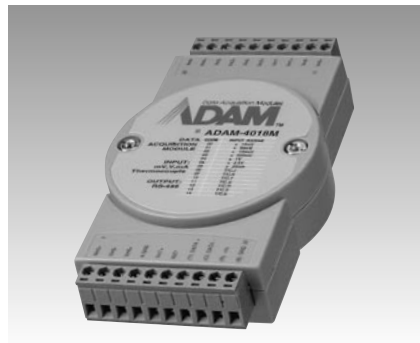
8-channel Analog Input Data Logger



ADAM-4017/4017+



ADAM-4018/4018+



ADAM-4018M



Specifications

Analog Input

- **Effective Resolution** 16-bit
- **Channels** Six differential, two single-ended (4017) eight differential (4017+)
- **Channel Independent Configuration** ADAM-4017+ only
- **Modbus®** ADAM-4017+ only
- **Input Type** mV, V, mA
- **Input Range** ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 4~20mA (4017+ only)
- **Isolation Voltage** 3000 V_{DC}
- **Fault and Overvoltage Protection** Withstands overvoltage up to ±35 V
- **Sampling Rate** 10 samples/sec. (total)
- **Input Impedance** 20 MΩ
- **Bandwidth** 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
- **Accuracy** ±0.1% or better
- **Zero Drift** ±6 μV/° C
- **Span Drift** ±25 ppm/° C
- **CMR @ 50/60 Hz** 92 dB min.

Built-in Watchdog Timer

- **Power Requirements** Unregulated +10 ~ +30 V_{DC}
- **Power Consumption** 1.2 W @ 24 V_{DC}
- **Built-in TVS/ESD Protection**

Ordering Information

- **ADAM-4017-D2** 8-channel Analog Input Module
- **ADAM-4017+** 8-channel Differential Analog Input Module w/Modbus®

Specifications

Analog Input

- **Effective Resolution** 16-bit
 - **Channels** Six differential, two single-ended (4018) eight differential (4018+)
 - **Ch. Independent Conf.** ADAM-4018+ only
 - **Modbus®** ADAM-4018+ only
 - **Input Type** Thermocouple, mV, V, mA (4018) (4018+ Supports T/C & 4~20 mA only)
 - **Input Range** ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V, ±20 mA (4018); 4~20 mA (4018+)
 - **T/C Type and Temperature Ranges**
- | | | | |
|----------|---------------|----------|--------------|
| J | 0 ~ 760° C | R | 500 ~1750° C |
| K | 0 ~ 1370° C | S | 500 ~1750° C |
| T | -100 ~ 400° C | B | 500 ~1800° C |
| E | 0 ~ 1000° C | | |
- **Isolation Voltage** 3000 V_{DC}
 - **Fault and Overvoltage Protection** Resists overvoltage up to ±35 V
 - **Sampling Rate** 10 samples/sec. (total)
 - **Input Impedance** 20 MΩ
 - **Bandwidth** 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
 - **Accuracy** ±0.1% for voltage input
 - **Zero Drift** ±3 μV/° C
 - **Span Drift** ±25 ppm/° C
 - **CMR @ 50/60 Hz** 92 dB min.

Built-in Watchdog Timer and Individual wire burned-out detection (4018+ only)

- **Power Requirements** Unregulated +10 ~ +30 V_{DC}
- **Power Consumption** 0.8 W @ 24 V_{DC}
- **Built-in TVS/ESD Protection**

Ordering Information

- **ADAM-4018-D2** 8-ch. Th.couple Input Module
- **ADAM-4018+** 8-ch. Differential, mA and Thermocouple Input Module w/Modbus®

Specifications

Analog Input

- **Effective Resolution** 16-bit
 - **Channels** Six differential, two single-ended
 - **Input Type** Thermocouple, mV, V, mA
 - **Input Range** ±15 mV, ±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V, ±20 mA
 - **T/C Type and Temperature Range**
- | | | | |
|----------|---------------|----------|--------------|
| J | 0 ~ 760° C | R | 500 ~1750° C |
| K | 0 ~ 1370° C | S | 500 ~1750° C |
| T | -100 ~ 400° C | B | 500 ~1800° C |
| E | 0 ~ 1000° C | | |
- **Isolation Voltage** 3000 V_{DC}
 - **Sampling Rate** 10 samples/sec. (total)
 - **Input Impedance** 1.8 MΩ
 - **Bandwidth** 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz
 - **Accuracy** ±0.1% for voltage input
 - **Zero Drift** ±3 μV/° C
 - **Span Drift** ±25 ppm/° C
 - **CMR @ 50/60 Hz** 92 dB min.

Storage

- **Capacity (128 KB flash memory)** 38,000 samples (total)
- **Storage Mode** Write to end of memory & cyclic
- **Logging Mode** Internal log or event log (high/low)
- **Sampling Interval** 2 secs. ~ 18 hours

Built-in Watchdog Timer

- **Power Requirements** Unregulated +10 ~ +30 V_{DC}
- **Power Consumption** 1.8 W @ 24 V_{DC}

Ordering Information

- **ADAM-4018M** 8-channel Analog Input Data logger – mV, V, mA, or thermocouple