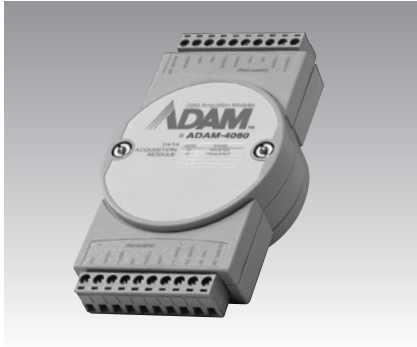


ADAM-4080/4080D ADAM-4531 ADAM-4914V

Counter/Frequency Module Modbus to BACNET Converter 4-channel Voltage Input Surge Protection Module



ADAM-4080/4080D



ADAM-4531



ADAM-4914V

Specifications

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** Programmable threshold:
- **Input Level** 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 msec.
- **Maximum Count** 4,294,967,295 (32 bits)
- **Programmable Digital Noise Filter** 2 msec. ~ 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.

Display (ADAM-4080D Only)

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

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 @ 24 V_{DC}

Specifications

Input

- **Communication Port** RS-485
- **Baud Rate** 9600, 19200, 38400, 57600 (software configurable)
- **Protocol** MODBUS/RTU

Output

- **Communication Port** RS-485
- **Baud Rate** 9600, 19200, 38400, 57600 (software configurable)
- **Protocol** BACnet MS/TP
- **I/O Mapping (Physical I/O)**
AI : 64 points AO : 64 points
DI : 64 points DO : 64 points
- **Max. I/O Capacity** Totally 64 points (including AI/AO/DI/DO)

MODBUS I/O Register

Address : User Configurable

- **Max. Nodes** 64

Utility Software Features

- Windows based operating interface
- Object ID configuration for Converter
- I/O points Configuration
- Communication Baud Rate Configuration (Input/Output)
- Automatically Creates PICS Mapping Table

Ordering Information

- **ADAM-4531** Modbus to BACNET Converter
- **ADAM-4080** Counter/Frequency Module
- **ADAM-4080D** Counter/Frequency Module with LED Display

Specifications

Input

- **Channels** 4 differential voltage input and thermocouple

Performance

- **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: ≤ 10μA @ 7.5 V_{DC}
LINE TO GND: ≤ 5μA @ +140 V_{DC}
- **Response Time** ≤ 0.1 μsec.
- **Discharge Current** 5,000 A (8/20 μsec.)
- **Internal Series Resistance** Approx. 20Ω including return
- **Maximum Line Voltage** 10 V

Ordering Information

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