ADAM-4019 ADAM-4021 ADAM-4022T

8-channel Universal Analog Input Module

Analog Output Module

(€ ∞

Serial Based Dual Loop PID Controller



ADAM-4019



ADAM-4021

CE



ADAM-4022T

CE

Specifications

Analog Output

• Effective Resolution 16-bit

Channels
 8 differential channels
 for individual input to

for individual input type
• Input Type thermocouple, mV, V,

MΑ

• Input Range ± 100 mV, ± 500 mV, ± 1 V, ± 2.5 V, ± 5 V, ± 10 V, ± 20 mA

T/C Type and Temperature Range

760° C N J K 1370° C 0 Τ -100 400° C Ε 0 1000° C R 500 1750° C S 1750° C 500 1800° C

Isolation Voltage 3000 V_{DC}

Fault and Overvoltage Resists overvoltage up
 Protection to ±35 V

■ Input Impedance 20 MΩ

Bandwidth 13.1 Hz @ 50 Hz, 15.72 Hz @ 60 Hz

• Accuracy ±0.1% of voltage input

■ Zero Drift ±30 mV/° C
■ Span Drift ±25 ppm/° C
■ CMR @ 50/60 Hz 92 dB min.

Built-in Watchdog Timer

Power

 $\begin{tabular}{ll} \blacksquare & \textbf{Power Requirements} & \textbf{Unregulated} \\ & +10 \sim +30 \ V_{DC} \end{tabular}$

Power Consumption
 1.2 W @ 24 V_{DC}

Specifications

Analog Output

Effective Resolution 12-bit
 Output Type mA, V

Output Range 0 to 20 mA, 4 to 20 mA, and 0 to 10 V

Isolation Voltage 3000 V_{DC}
 Output Impedance 0.5 W

Output Impedance 0.5 W
 Accuracy ±0.1% of FSR for

current output ±0.2% of FSR for voltage output

Readback Accuracy ±1% of FSR Resolution ±0.015% of FSR

Zero Drift
 Voltage output: ±30 mV/° C

current output: ±0.2 mA/° C

Span Temperature Coefficient

 ± 25 ppm/° C

■ **Programmable** 0.125 ~ 128 mA/sec. **Output Slope** 0.0625 ~ 64.0 V/sec.

• Current Load Resistor 0 to 500 W (source)

Built-in Watchdog Timer

Power

Power Requirement Unregulated
 I+10 ~ +30 V_{DC}

■ Power Consumption 1.4 W @ 24 V_{DC}

Specifications

Analog Input

Channels4

Input Type mA, V, Thermistor, RTD
 Input Range 0 to 20 mA, 4 to 20 mA, 0 to 10 V

• Thermistor Type and Temperature Ranges

Thermistor 3K: $0 \sim 100^{\circ} \text{ C}$ Thermistor 10K: $0 \sim 100^{\circ} \text{ C}$

RTD Type and Temperature Ranges

Pt 100 RTD Pt -100 ~ 100° C Pt 0 ~ 100° C Pt 0 ~ 200° C Pt 0 ~ 600° C

IEC RTD 100 ohms (a = 0.00385) JIS RTD 100 ohms (a = 0.00392)

Pt 1000 RTD Pt -40 ~ 160° C

Analog Output

ChannelsOutput TypemA,V

• Output Range 0 to 20 mA, 4 to 20 mA,

0 to 10 V

Digital Input

Channels

Dry Contact
 Logic level 0-close to

NU nain laual 1

Logic level 1-open

Digital Output

Channels2

Open Collector to 30 V, 100 mA max. load

Surge Protection $3,000 \, V_{DC}$

(Power)

Built-in Watchdog Timer

Power Requirements
 Power Consumption
 Unregulated 10 ~ 30 V_{DC}
 4 W @ 24 V_{DC}

Ordering Information

ADAM-4022T

Serial Based Dual Loop PID Controller

Ordering Information

ADAM-4019 8-channel Universal Analog

Input w/Modbus

Ordering Information

ADAM-4021

Analog Output Module – V or mA