Модули ввода-вывода серии ADAM-3000

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ADAM-3011
ADAM-3013

Isolated Thermocouple Input Module

Isolated RTD Input Module

Specifications

Thermocouple Input

- **Common Mode** 115 dB min
- **Rejection**
- **Input Type**

T/C type, temperature range and accuracy at 25° C:

J	-40°	~	760° C	(±2° C)
K	0°	~	1000° C	(±2° C)
T	-100°	~	400° C	(±2° C)
E	0°	~	1000° C	(±2° C)
S	500°	~	1750° C	(±4° C)
R	500°	~	1750° C	(±4° C)
B	500°	~	1800° C	(±4° C)

- **Isolation (three way)** 1,000 V_{DC}
- **Output Impedance** 0.5 Ω
- **Stability (temperature drift)** ±2° C
- **Voltage Output** 0 ~ 10 V

General

- **Certifications** CE, FM
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation** 1,000 V_{DC}
- **Power Consumption** 1.4 W
- **Power Input** +24 V_{DC} ± 10%

Environment

- **Operating Temperature** 0 ~ 50° C (32 ~ 122° F)
- **Storing Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **ADAM-3011** Isolated Thermocouple Input Module

Specifications

RTD Input

- **Accuracy** +/- 0.1% of full range (voltage) or +/- 0.15° C (voltage)
  +/- 0.2% of full range (current)
- **Bandwidth** 4 Hz
- **Input CMR at DC** 92 dB mininum
- **Input Connections** 2, 3 or 4 wires
- **Input Type** Pt or Ni RTD
- **RTD Types and Temperature Ranges**

Pt	-100°	~	100° C	a=0.00385
Pt	0°	~	100° C	a=0.00385
Pt	0°	~	200° C	a=0.00385
Pt	0°	~	600° C	a=0.00385
Pt	-100°	~	0° C	a=0.00385
Pt	-100°	~	200° C	a=0.00385
Pt	-50°	~	50° C	a=0.00385
Pt	-50°	~	150° C	a=0.00385
Pt	-100°	~	100° C	a=0.00392
Pt	0°	~	100° C	a=0.00392
Pt	0°	~	200° C	a=0.00392
Pt	0°	~	600° C	a=0.00392
Ni	0°	~	100° C	
Ni	-80°	~	100° C	

- **Output Range** 0 ~ 5 V, 0 ~ 10 V, 0 ~ 20 mA
- **Output Resistance** < 5 Ω
- **Temperature Drift** +/- 30 ppm of full range

General

- **Certifications** CE, FM
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation** 1,000 V_{DC}
- **Power Consumption** < 0.95 W
- **Power Input** 24 V_{DC} ±10%

Environment

- **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- **Storing Temperature** -25 ~ 85° C (-13 ~ 185° F)

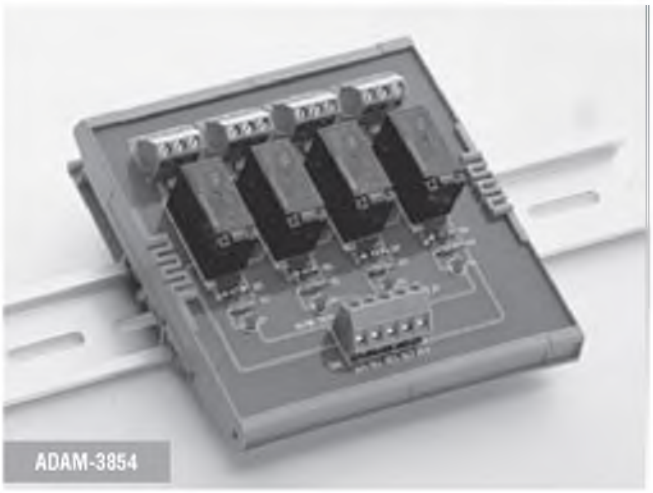
Ordering Information

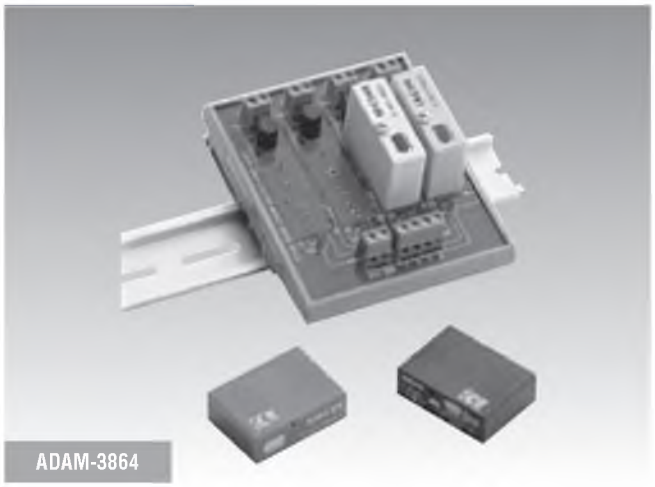
- **ADAM-3013** Isolated RTD Input Module

ADAM-3854
ADAM-3864

4-ch Power Relay Module

4-ch Solid State Digital I/O Module Carrier Backplane





Features

- High power relays can handle up to 5 A @ 250 V_{AC} and 5 A @ 30 V_{DC}
- 4 single-pole double-throw (SPDT) relays
- Industrial screw terminals for easy output wiring
- LED status indicators
- Onboard varistor protects relay contact points
- DIN-rail mounting
- All the relay outputs and relay controls are accessible through wiring terminals, allowing the ADAM-3854 to be easily connected to any item of equipment or device such as programmable logic controllers (PLCs).

Specifications

I/O

Channels	4
Contact Rating	AC: 250 V @ 5 A DC: 30 V @ 5 A
Contact Resistance	100 mΩ
Operation Time	15 ms max.
Relay Type	SPDT (Form C)
Release Time	5 ms max.
Life Expectancy	1.7 x 10^5 at rated load

Varistor

Clamping Voltage	760 V (10 A)
Maximum Applied Voltage	300 V_{RMS}
Max. Peak Current	1,200 A for 8 ms
Varistor Voltage	470 V (current = 1 mA)

General

Connectors	Screw terminals
Dimensions (L x W x H)	112.5 x 118.4 x 46 mm (4.43" x 4.66" x 1.81")
LED Indicators	Status displayed for each relay
Mounting	DIN 35 rail
Power Consumption	2.2 W
Power Input	+24 V_{DC}

Ordering Information

ADAM-3854	4-ch DIN-rail Mounting Power Relay Module

Features

- 4-channel carrier backplane for any combination of AC or DC I/O modules
- 2,500 V_{RMS} optical isolation
- LED channel status indicator for easy monitoring
- Onboard fuse protection
- DIN-rail mounting

Specifications

Input Modules

Field Side:

Turn on/off Time	IAC24 series: 20 msec. max. IAC24A series: 20 msec. max. IDC24B series: 100 msec. max.
Input on/off Voltage Range	IAC24 series: 90 ~ 140 V/45 V_{RMS} IAC24A series: 180 ~ 280 V/80 V_{RMS} IDC24B series: 3 ~ 32 V/1 V_{DC}
Input Resistance	IAC24 series: 14 kΩ IAC24A series: 44 kΩ IDC24B series: 1.5 kΩ

Logic Side:

Breakdown Voltage	30 V_{DC}
Output Current	100 mA max.
Output Voltage Drop	0.4 V max.
Supply Current	12 mA max.
Supply Voltage	24 V_{DC}

Output Modules

Field Side:

Contact Voltage Drop	1.6 V max.
Current Rating	3 A max. (@ 25° C)
Turn on/ Turn off Time	OAC series: ½ AC cycle max. ODC series: 100 µsec./750 µsec. max.

Logic Side:

Input Resistance	220 Ω
Supply Current	12 mA max.
Supply Voltage	24 V

CANNOT FIT ALL SPECS

Dimensions (L x H x W)	118.4 x 90 x 59 mm (4.66" x 3.54" x 2.32")
Mounting	DIN 35 rail

Ordering Information

ADAM-3864	4-ch Solid State Digital I/O Module Carrier Backplane
OAC24A	AC Output Module (24-280 V_{AC}, 3 A)
ODC24	DC Output Module (5-60 V_{DC}, 3 A)
PCLM-ODC5	DC Output Module (ODC5,5-60 V_{AC})
IAC24	AC Input Module (90-140 V_{AC})
IAC24A	AC Input Module (180-280 V_{AC})
IDC24B	DC Input Module (3-32 V_{DC})

ADAM-3016
ADAM-3112
ADAM-3114

Isolated Strain Gauge Input Module

Isolated AC Voltage Input Module

Isolated AC Current Input Module

ADAM-3016

ADAM-3112

ADAM-3114

Specifications

I/O

- **Accuracy** ±0.1% of full range
- **Bandwidth** 2.4 kHz (typical)
- **Isolation Mode Rejection** >100 dB @ 50 Hz/60 Hz
- **Current Output** Current: 0 ~ 20 mA
  Current load resistor: 0 ~ 500 Ω (Source)
- **Stability (Temperature Drift)** 150 ppm (typical)
- **Voltage Specifications** Electrical input: ±10 mV, ±20 mV, ±30 mV, ±100 mV
  Excitation voltage: 1 ~ 10 V_{DC} (60 mA max)
- **Voltage Output** Bipolar: ±5 V, ±10 V
  Unipolar: 0 ~ 10 V
  Impedance: < 50 Ω

General

- **Certifications** CE
- **Connectors** Screw terminal
- **Enclosure** ABS
- **Indicators** Power LED indicator
- **Isolation (Three-way)** 1,000 V_{DC}
- **Power Consumption** ≤ 1.85 W (voltage output)
  ≤ 2.15 W (current output)
- **Power Input** 24 V_{DC} ±10%
- **Operating Temperature** -10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** -25 ~ 85° C (-13 ~ 185° F)

Ordering Information

- **ADAM-3016** Isolated Strain Gauge Input Module

Specifications

Voltage Input

Full Range Mode		400 V	250 V	120 V
Input Voltage	AC (V_{RMS})	0 ~ 400	0 ~ 250	0 ~ 120
	DC (V)	0 ~ 400	0 ~ 250	0 ~ 120
Input Impedance		48 k	30 k	14.4 k

Voltage Output

- **Output Signal** 0 ~ +5 V_{DC}
- **Accuracy** < ±1.0 % for full range
- **Output Impedance** < 10 @ operating frequency <60 Hz
- **Load** > 10 k
- **Ripple** < 120mVp-p
- **Temperature Coefficient** 400 ppm/° C
- **Input Bandwidth** 6 kHz

Power Consumption

- **Supply Voltage** +24 V_{DC} ± 10 %
- **Current Consumption** 40 mA

General

- **Isolation Protection** 1,000 V_{DC} (output to power)
  2,500 V_{RMS} (input to output, input to power)
- **Operating Temperature** 0 ~ 60° C
- **Storage Temperature** -20 ~ 70° C
- **Storage Humidity** 5 ~ 95 %

Ordering Information

- **ADAM-3112** Isolated AC Voltage Input Module

Specifications

Current Input

- **AC Current Input** 0 ~ 5 A_{RMS}
- **DC Current Input** 0 ~ 5 A

Voltage Output

- **Output Signal** 0 ~ +5 V_{DC}
- **Accuracy** < ±1.0 % for full range
- **Output Impedance** <10 @ operating frequency <60 Hz
- **Load** > 10 k
- **Ripple** < 120 mVp-p
- **Temperature Coefficient** 400 ppm/° C
- **Input Bandwidth** 10 kHz

Power Consumption

- **Supply Voltage** +24 V_{DC} ± 10 %
- **Current Consumption** 40 mA

General

- **Isolation Protection** 1,000 V_{DC} (output to power)
  2,500 V_{RMS} (input to output, input to power)
- **Operating Temperature** 0 ~ 60° C
- **Storage Temperature** -20 ~ 70° C
- **Storage Humidity** 5 ~ 95 %

Ordering Information

- **ADAM-3114** Isolated AC Current Input Module

ADAM-3014
ADAM-3016

Isolated DC Input/Output Module

Isolated Strain Gauge Input Module

Specifications

- **Voltage Input** — Bipolar input: ±10 mV, ±50 mV, ±100 mV, ±0.5 V, ±1.0 V, ±5 V, ±10 V; Unipolar input: 0 ~ 10 mV, 0 ~ 50 mV, 0 ~ 100 mV, 0 ~ 0.5 V, 0 ~ 1 V, 0 ~ 5 V, 0 ~ 10 V; Input impedance: 2 MΩ; Input bandwidth: 2.4 kHz (typical)
- **Current Input** — Bipolar: ±20 mA; Unipolar: 0 ~ 20 mA; Input impedance: 250 Ω
- **Voltage Output** — Bipolar: ±5 V, ±10 V; Unipolar: 0 ~ 10 V; Impedance: < 50 Ω; Drive: 10 mA max.
- **Current Output** — 0 ~ 20 mA
- **Isolation (three way)** — 1,000 V_{DC}
- **Accuracy** — ±0.1% of full range (typical)
- **Stability (temperature drift)** — 150 ppm (typical)
- **Common Mode Rejection** — > 100 dB @ 50 Hz/60 Hz
- **Power Consumption** — 0.85 W (voltage output); 1.2 W (current output)

Specifications

- **Voltage Specifications** — Electrical input: ±10 mV, ±20 mV, ±30 mV, ±100 mV; Excitation voltage: 1 ~ 10 V_{DC} (60 mA max)
- **Voltage Output** — Bipolar: ±5 V, ±10 V; Unipolar: 0 ~ 10 V; Impedance: < 50 Ω
- **Current Output** — Current: 0 ~ 20 mA; Current load resistor: 0 ~ 500 Ω (Source)
- **Isolation (three way)** — 1,000 V_{DC}
- **Accuracy** — ±0.1% of full range
- **Bandwidth** — 2.4 kHz (typical)
- **Stability (temperature drift)** — 150 ppm (typical)
- **Isolation Mode Rejection** — >100 dB @ 50 Hz/60 Hz
- **Operating Temperature** — -10~ 70° C (14~158° F)
- **Power** — Range: 24 V_{DC} ±10%; Consumption: ≤ 1.85 W (voltage output); ≤ 2.15 W (current output)

Ordering Information

- **ADAM-3014** — Isolated DC Input/Output Module

Ordering Information

- **ADAM-3016** — Isolated Strain Gauge Input Module

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