

# DATENBLATT

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ND-6013 / ND-6017 / ND-6018 /  
ND-6021 / ND-6024

## **HABEN SIE FRAGEN ODER WÜNSCHEN SIE EIN INDIVIDUELLES ANGEBOT?**

Unser Team berät Sie gerne persönlich.

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## **ADRESSE**

Am Sonnenlicht 5

D-82239 Alling bei München



# Analog Modules

## ND-6013

3-CH RTD Input Module



### Analog Input

- Channels: 3
- Input Type: Pt-100, Ni-100, Ni 120 RTD or Ohm

RTD	Type	Temperature Range
Pt	-100°C to +100°C	= 0.00385
Pt	0°C to +100°C	= 0.00385
Pt	0°C to +200°C	= 0.00385
Pt	0°C to +600°C	= 0.00385
Pt	-100°C to +100°C	= 0.003916
Pt	0°C to +100°C	= 0.003916
Pt	0°C to +200°C	= 0.003916
Pt	0°C to +600°C	= 0.003916
Ni	-100 0°C to +100°C	
Ni	-120 0°C to +100°C	
Ω	0 Ω to +60 Ω	

- Isolation Voltage: 2500 VRMS
- Sampling Rate: 3 samples/sec
- Input Wiring: 2, 3, or 4 wires

### Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 0.696 W typical

## ND-6017

8-CH Analog Input Module



### Analog Input

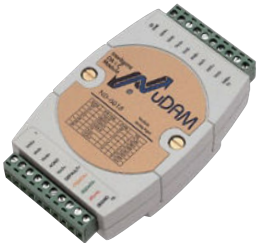
- Channels: 6 differential & 2 singled-ended
- Input Type: mV, V, and mA
- Input Range:  $\pm 150$  mV,  $\pm 500$  mV,  $\pm 1$  V,  $\pm 5$  V,  $\pm 10$  V
- Current Range: 0 to 20 mA (with external 125 Ω resistor)
- Isolated Voltage: 2500 VRMS
- Sampling Rate: 20 samples/sec

### Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 1.2 W typical

## ND-6018

8-CH Thermocouple Input Module



### Analog Input

- Channels: 6 differential & 2 singled-ended
- Input Type: Thermocouple, mV, V, or mA
- Thermocouple Type: J, K, T, E, R, S, B, N, C
- Thermocouple Input Range
  - J: 0°C to 760°C
  - K: 0°C to 1,370°C
  - T: -100°C to +400°C
  - E: 0°C to 1,000°C
  - R: 500°C to 1,750°C
  - S: 500°C to 1,750°C
  - B: 500°C to 1,800°C
  - N: -270°C to 1,300°C
  - C: 0°C to 2,320°C

- Internal CJC can be enable/disable
- Voltage Range:  $\pm 15$  mV,  $\pm 50$  mV,  $\pm 100$  mV,  $\pm 500$  mV,  $\pm 1$  V,  $\pm 2.5$  V
- Current Range: 0 to 20 mA (with external 125 Ω resistor)
- Isolated Voltage: 2500 VRMS
- Sampling Rate: 10 samples/sec

### Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 0.96 W typical

## ND-6021

Analog Output Module



### Single Channel Analog Output

- Voltage Output: 0 to +10 V
- Current Output: 0 to +20 mA, +4 to +20 mA
- Output Isolation: 5000 VRMS
- Resolution: 12-bit output resolution accuracy
- Programmable Output Slope:
  - 0.125 to 128 mA/sec
  - 0.0625 to 64 V/sec
- Current Load Resistor: 0 to 500 Ω

### Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 1.32 W typical

## ND-6024

4-CH Analog Output Module



### Analog Output

- Channels: 4
- Voltage Output -10 V to +10 V
- Resolution: 12-bit
- Accuracy:  $\pm 0.02\%$  of FSR
- Maximum current output:  $\pm 10$  μA
- Gain Drift: 10 ppm FSR/°C

### Digital Input

- Channels: 7
- Switching Levels: TTL

### Power

- Requirement: unregulated +10 V to +30 Vdc
- Power Consumption: 1.848 W typical