# **APAX-5013 APAX-5017 APAX-5018**

### 8-ch RTD Module

# 12-ch Analog Input Module

# 12-ch Thermocouple Input Module



# **Specifications**

### General

 Certifications CE, FCC class A **Dimensions (W x H x D)** 30 x 139 x 100 mm ABS+PC Enclosure Weight 170 g

Power Consumption 2.5 W @ 24 V<sub>DC</sub> (typical)

### **Analog Input**

Channels 8 (Differential) Input Impedance >10 MΩ

 Input Type Pt-100, Pt-200, Pt-500, Pt-1000, Balco, Ni 518 RTD

(2-wire and 3-wire)

 Temperature Range Pt-100. Pt-200. Pt-500. Pt-1000:

-120 ~ 130° C, -200 ~ 850° C

Supports both IEC 60751 ITS90 (0.03851  $\Omega/\Omega/^{\circ}$  C)

and JIS C 1604 (0.03916  $\Omega/\Omega/^{\circ}$  C) Balco 500: -30 ~ 120° C Ni 518: -80 ~ 100° C, 0 ~ 100° C

- Configure Different Range for Each Channel

Resolution 16-bit with accuracy ±0.1% of Full Scale Range

 Sampling Rate 10 sample/second (total) Noise Rejection Hardware Filter (50/60 Hz)

• Wire Burn-out Detection Yes

### **Protection**

2,500 V<sub>DC</sub> Isolation Between Channels and Backplane

Operating Temperature -10 ~ 60° C (when mounted vertically)

 Storage Temperature -40 ~ 70° C

 Relative Humidity 5 ~ 95% (non-condensing)

# **Ordering Information**

APAX-5013 8-ch RTD Module APAX-5001 1-slot Backplane Module 2-slot Backplane Module APAX-5002

 APAX-5343E Power Supply for APAX Expansion Module



APAX-5017

APAX-5018

C € FCC

# **Specifications**

### General

Certifications CE, FCC class A **Dimensions (W x H x D)** 30 x 139 x 100 mm **Enclosure** ABS+PC

Weight

4 W @ 24 V<sub>DC</sub> (APAX-5017) **Power Consumption** 3.5 W @ 24 V<sub>DC</sub> (APAX-5018) (typical)

### Analog Input

Channels 12 (Differential) V, mV, mA (APÁX-5017) Input Type

V, mV, mA, Thermocouple (APAX-5018)

Voltage: >10 M $\Omega$  (APAX-5017), >1 M $\Omega$  (APAX-5018) Input Impedance

Current: 120Ω (Current) ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 Voltage/Current Range

mA, 4 ~ 20 mA (APAX-5017)

±50 mV, ±100 mV, ±500 mV, ±1 V, ±2.5 V, ±20 mA,

0 ~ 20 mA, 4 ~ 20 mA (APAX-5018)

Type J (-210 ~ 1200° C), Type K (-270 ~ 1372° C), Type T (-270 ~ 400° C), Type E (-270 ~ 1000° C), Type E (-270 ~ 1000° C), **Temperature Range** (APAX-5018 only)

Type R (0 ~ 1768° C), Type S (0 ~ 1768° C), Type B (300 ~ 1820° C)

**Configure Different Range for Each Channel** 

Resolution 16-bit with accuracy ±0.1% or better of Full Scale Range (Voltage), ±0.2% or better of Full Scale Range(Current)

Note: Refer to manual for Thermocouple accuracy

Sampling Rate 12 samples/second (total) Hardware Filter (50/60 Hz) **Noise Rejection** Wire Burn-out Detection APAX-5017: Yes (4 ~ 20 mA only)

APAX-5018: Yes (4 ~ 20 mA and Thermocouple)

Common Mode Voltage  $200 \, V_{DC}$ 

### **Protection**

2,500 V<sub>DC</sub> Isolation Between Channels and Backplane

**Over Voltage Protection** 

### **Environment**

**Operating Temperature**  $-10 \sim 60^{\circ}$  C (when mounted vertically)

-40 ~ 70° C Storage Temperature

**Relative Humidity** 5 ~ 95% (non-condensing)

# Ordering Information

APAX-5017 12-ch Analog Input Module **APAX-5018** 12-ch Thermocouple Input Module 1-slot Backplane Module APAX-5001 APAX-5002 2-slot Backplane Module

APAX-5343E Power Supply for APAX Expansion Module