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

## 8-ch RTD Module

## 12-ch Analog Input Module

## 12-ch Thermocouple Input Module



APAX-5013

ROHS COMPLIANT 2002795EC C FCC

## **Specifications**

### General

 Certification 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-5017

APAX-5018



## **Specifications**

### General

Certification 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) Input Type V, mV, mA (APÁX-5017)

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

Voltage: >10 M $\Omega$  (APAX-5017), >1 M $\Omega$  (APAX-5018) Input Impedance Current:  $120\Omega$  (Current)  $\pm 150$  mV,  $\pm 5$  V,  $\pm 10$  V,  $\pm 20$  mA,  $0 \sim 20$ 

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 B (-270 - 1000°C), Type R (0 - 1768°C), Type S (0 - 1768°C), Type B (300 - 1820°C) **Temperature Range** (APAX-5018 only)

**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  $-10 \sim 60^{\circ}\text{C}$  (when mounted vertically)  $-20 \sim 70^{\circ}\text{C}$  (for PE version)

**Storage Temperature** -40 ~ 70°C

Relative Humidity 5 ~ 95% (non-condensing)

## Ordering Information

APAX-5017 12-ch Analog Input Module **APAX-5018** 12-ch Thermocouple Input Module

12-ch Analog Input Module with Wide Temperature APAX-5017PE