APAX-5013 APAX-5017 APAX-5018

8-ch RTD Module

12-ch Analog Input Module

12-ch Thermocouple Input Module



APAX-5013

ROHS COMPUNIT

Specifications

General

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

Power Consumption 2.5 W @ 24 V_{DC} (typical)

Analog Input

Channels 8 (Differential) Input Impedance $>10 M\Omega$

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

(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_{DC} Isolation Between Channels and Backplane

Environment

■ 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 ABS+PC Enclosure

Weight

Power Consumption 4 W @ 24 VDC (APAX-5017) 3.5 W @ 24 V_{DC} (APAX-5018) (typical)

Analog Input

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

V, mV, mA, Thermocouple (APAX-5018) Voltage: >10 M Ω (APAX-5017), >1 M Ω (APAX-5018) Current: 120 Ω (Current) Input Impedance

Voltage/Current Range

 ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, ± 20 mA, $0\sim 20$ mA, $4\sim 20$ 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 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 Vpc Isolation Between Channels and Backplane

Over Voltage Protection

Environment

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

-20~70°C (for PE version) -40 ~ 70°C Storage Temperature

Relative Humidity 5 ~ 95% (non-condensing)

Ordering Information

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

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

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