

APAX-5013 APAX-5017 APAX-5018

8-ch RTD Module

12-ch Analog Input Module

12-ch Thermocouple Input Module



APAX-5013

CE FCC

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 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 Ω/Ω/°C) and JIS C 1604 (0.03916 Ω/Ω/°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

CE FCC

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 4 W @ 24 V_{DC} (APAX-5017)
3.5 W @ 24 V_{DC} (APAX-5018)

Analog Input

- Channels 12 (Differential)
- Input Type V, mV, mA (APAX-5017)
V, mV, mA, Thermocouple (APAX-5018)
- Input Impedance Voltage: >10 MΩ (APAX-5017), >1 MΩ (APAX-5018)
Current: 120Ω (Current)
- Voltage/Current Range ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±20 mA, 0 ~ 20 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)
- Temperature Range 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)
- 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)
- Noise Rejection Hardware Filter (50/60 Hz)
- 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_{DC} Isolation Between Channels and Backplane
- Over Voltage Protection

Environment

- Operating Temperature -10 ~ 60°C (when mounted vertically)
-20 ~ 70°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
- APAX-5017PE 12-ch Analog Input Module with Wide Temperature