

APAX-5013 APAX-5017 APAX-5018

8-ch RTD Module

12-ch Analog Input Module

12-ch Thermocouple Input Module

NEW



APAX-5013

RoHS
COMPLIANT
2002/95/EC

CE FCC

Specifications

General

- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Weight** 170 g
- **Power Consumption** 2.5 W @ 24 V_{DC} (typical)

Analog Input

- **Channels** 8
- **Input Impedance** >10 M Ω
- **Input Type** Pt-100, Pt-200, Pt-500, Pt-1000, Balco, Ni 518 RTD (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** Yes
- **Resolution** 16-bit
- **Sampling Rate** 10 sample/second (total)
- **CMR @ 50/60 Hz** 90 dB
- **NMR @ 50/60 Hz** 60 dB
- **Noise Rejection** Hardware Filter (50/60 Hz)

Protection

- **Isolation between Channels and Backplane** 2,500 V_{DC}

Environment

- **Operating Temperature** -10 ~ 60° C (when mounted vertically)
- **Storage Temperature** -40 ~ 70° C
- **Relative Humidity** 5 ~ 95% (non-condensing)

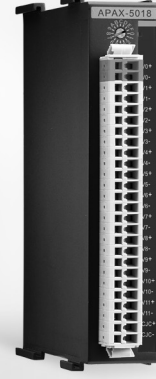
Ordering Information

- **APAX-5013** 8-ch RTD Module
- **APAX-5001** 1-slot Backplane Module
- **APAX-5002** 2-slot Backplane Module
- **APAX-5343E** Power Supply for APAX Expansion Module

NEW



APAX-5017



APAX-5018

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Specifications

General

- **Dimensions (W x H x D)** 30 x 139 x 100 mm
- **Weight** 170 g
- **Power Consumption (typical)** 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 M Ω (APAX-5017), >1 M Ω (APAX-5018)
Current: 120 Ω (Current)
- **Voltage/Current Range** \pm 150 mV, \pm 500 mV, \pm 1 V, \pm 5 V, \pm 10 V, \pm 20 mA, 0 ~ 20 mA, 4 ~ 20 mA (APAX-5017)
 \pm 50 mV, \pm 100 mV, \pm 500 mV, \pm 1 V, \pm 2.5 V, \pm 20 mA, 0 ~ 20 mA, 4 ~ 20 mA (APAX-5018)
- **Temperature Range (APAX-5018 only)** 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** Yes
- **Resolution** 16-bit with accuracy \pm 0.1% or better of Full Scale Range (Voltage), \pm 0.2% or better of Full Scale Range (Current)

Note: Refer to manual for Thermocouple accuracy

- **Sampling Rate** 12 samples/second (total)
- **Conversion Time** 100 ms (per channel)
- **CMR @ 50/60 Hz** 92 dB
- **NMR @ 50/60 Hz** 60 dB
- **Noise Rejection** Hardware Filter (50/60 Hz)
- **Wire Burn-out Detection** Yes (APAX-5081 only, for Thermocouple)

Protection

- **Isolation between Channels and Backplane** 2,500 V_{DC}
- **Supports Over Voltage Protection**

Environment

- **Operating Temperature** -10 ~ 60° C (when mounted vertically)
- **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-5001** 1-slot Backplane Module
- **APAX-5002** 2-slot Backplane Module
- **APAX-5343E** Power Supply for APAX Expansion Module