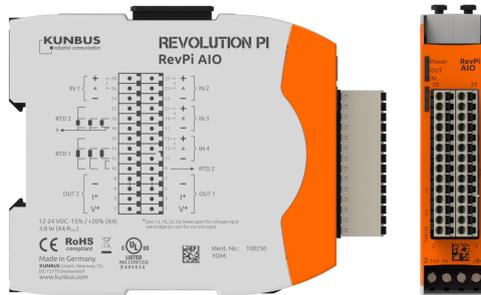


Technical Data

RevPi AIO



Item No.: 100250

Standard	EN 61131-2
Housing dimensions (H × W × D)	96 × 22.5 × 110.5 mm
Housing type	DIN rail housing for TH35 according to DIN EN 60715
Housing material	Polycarbonate
Weight	Approx. 115 g
Protection class	IP20 / NEMA Class 1
Power supply	12 ... 24 V DC (-15 % / +20 %)
Power consumption	<ul style="list-style-type: none"> • Max. 200 mA at 24 V (full load) • Max. 400 mA at 12 V (full load) • Max. 500 mA during start up
Approved operating temperature	-30 ... +55 °C
Approved storage temperature	-40 ... +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Voltage measuring ranges	±10 V ±5 V 0 ... 10 V 0 ... 5 V
Current input ranges	0 ... 20 mA 0 ... 24 mA 4 ... 20 mA ±25 mA
Temperature input range	-200 ... +850 °C
Voltage output ranges	±10 V ±11 V ±5 V ±5.5 V 0 ... 10 V 0 ... 11 V 0 ... 5 V 0 ... 5.5 V
Current output ranges	0 ... 20 mA 0 ... 24 mA 4 ... 20 mA
Input channels	<ul style="list-style-type: none"> • Total: 6 • Voltage: max. 4 • Current: max. 4 • RTDs: 2

Output channels	<ul style="list-style-type: none"> • Total: 2 • Voltage: max. 2 • Current: max. 2
Galvanic isolation	<ul style="list-style-type: none"> • Inputs to each other: no • Inputs to outputs: yes • Outputs to each other: no • System bus to inputs/outputs: yes
Type of analog inputs	<ul style="list-style-type: none"> • Voltage/current: differential • Temperature sensor RTD (Pt100/Pt1000): 2-, 3-, 4-wire
Type of analog outputs	Single-ended, common ground, short-circuit proof
ADC type	Internal 24 bit effective 16 bit
DAC type	16 Bit
Input resolution in process image	Voltage 1 mV Current 1 μ A Temperature 0.1 K
Output resolution in process image	Voltage 1 mV Current 1 μ A
Max. overall input error (at 25 °C ambient temperature)	<ul style="list-style-type: none"> • Voltage (all input ranges): ± 10 mV (± 5 mV at 0 ... 5 V) • Current (all input ranges): ± 20 μA (± 24 μA at 0 ... 24 μA) • Temperature (complete range): ± 0.5 K
Max. overall input error (at -30 ... +55 °C ambient temperature)	<ul style="list-style-type: none"> • Voltage (all input ranges): ± 10 mV • Current (all input ranges): ± 72 μA • Temperature (complete range): ± 1.5 K
Max. overall output error (at 25 °C ambient temperature)	<ul style="list-style-type: none"> • Voltage (all input ranges): ± 15 mV • Current (all input ranges): ± 20 μA
Max. overall output error (at -30 ... +55 °C ambient temperature)	<ul style="list-style-type: none"> • Voltage (all input ranges): ± 15 mV • Current (all input ranges): ± 72 μA
Input conversion time (data rate in process image)	8 ... 1000 ms (adjustable)
Output data rate	1 PiBridge cycle
Output slew rate, adjustable digital slew rate control	1 LSB at 3.3 kHz up to 128 LSB at 258 kHz
Input impedance Voltage	>900 k Ω
Output impedance Voltage	<16 Ω maximum capacitive load 5 nF at 1 k Ω
Max. load resistance for current output	600 Ω
Min. load resistance for voltage output	1 k Ω

Further features	All inputs and outputs are linearly scalable; overtemperature monitoring; overcurrent monitoring; range monitoring
Optical display	3 status LEDs (bi-color)
EMC immunity	According to EN 61000-6-2; a shielded cable is required for the analog I/Os for cable lengths over 3 m.
Conformity	CE, RoHS, REACH, UKCA
UL certification	UL-File-No. E494534 NOTE: The device may only be supplied from circuits that comply with Class 2 or Safety Extra Low Voltage (SELV) according to Class 9.4 of UL 61010-1.



<https://revolutionpi.com/shop/en/analog-io-expansion-module>

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Changes and errors excepted.