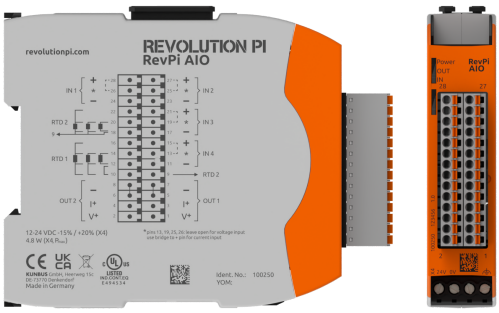
REVOLUTION PI

RevPi AIO



Technical Data

Item No.: 100250

Standard	EN 61131-2
Housing dimensions (H x W x D)	96 x 22.5 x 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	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 … 25 mA
Number of input channels for voltage for current for RTDs (Pt100/Pt1000)	6 max. 4 max. 4 2
Number of output channels for voltage for current	2 max. 2 max. 2
Galvanic isolation: Inputs to each other Inputs to outputs Outputs to each other System bus to inputs/outputs	 no yes no yes
Type of analog inputs: Voltage/current Temperature sensor (RTD)	 differential 2-, 3-, 4-wire
Type of analog outputs	Single-ended, common ground, short-circuit proof

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ADC type	24 bit internal | 16 bit effective
DAC type	16 Bit
Input resolution in process image	Voltage 1 mV | Current 1 µA | Temperature 0.1 K
Output resolution in process image	Voltage 1 mV | Current 1 µA
Max. overall input error (at 25 °C ambient temperature): Voltage (for all input ranges) Current (for all input ranges) Temperature (for complete range)	 ±10 mV (±5 mV at 0 ... 5 V) ±20 µA (±24 µA at 0 ... 24 µA) ±0.5 K
Max. overall input error (at -30… +55 °C ambient temperature): Voltage (for all input ranges) Current (for all input ranges) Temperature (for complete range)	 ±10 mV ±72 µA ±1.5 K
Max. overall output error(at 25 °C ambient temperature): Voltage (for all input ranges) Current (for all input ranges)	 ±15 mV ±20 µA
Max. overall output error(at -30… +55 °C ambient temperature): Voltage (for all input ranges) Current (for all input ranges)	 ±15 mV ±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 kΩ
Output impedance	Voltage <16 Ω | maximum capacitive load 5 nF at 1 kΩ
Max. load resistance for current output	600 Ω
Min. load resistance for voltage output	1 kΩ
Further features	all inputs and outputs are linear scalable; overtemperature monitoring; overcurrent monitoring; range monitoring
Optical display	3 status LEDs (bi-color)
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.