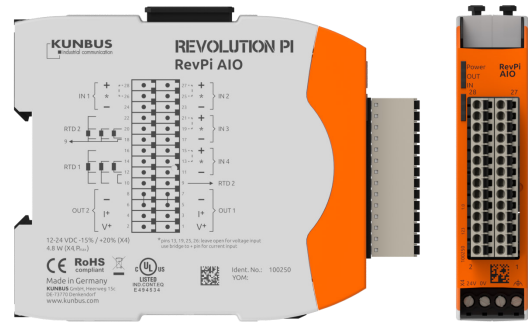


REVOLUTION PI

RevPi AIO

Article No.: 100250



Technical Data

| | |
|---|---|
| Compliance | EN 61131-2 |
| Housing dimensions (H x W x D) | 96 x 22.5 x 110.5 mm |
| Housing type | DIN rail housing (for DIN rail version EN 50022) |
| Housing material | Polycarbonate |
| Weight | approx. 115 g |
| IP Code | IP20 |
| Power supply | 12 - 24 V DC (-15%/+20 %) |
| Current consumption | max. 200 mA at 24 V (full load) max. 400 mA at 12 V (full load) max. 500 mA during start up |
| Operating temperature | -30...+55 °C |
| Storage temperature | -40...+85 °C |
| Humidity (at 40 °C) | 93 % (non-condensing) |
| Voltage measuring range | ±10 V ±5 V 0...10 V 0...5 V |
| Current measuring range | 0...20 mA 0...24 mA 4...20 mA ±25 mA |
| Temperature measuring range | -200...+850 °C |
| Voltage output range | ±10 V ±11 V ±5 V ±5.5 V 0...10 V 0...11 V 0...5 V 0...5.5 V |
| Current output range | 0...20 mA 0...24 mA 4...20 mA |
| Number of input channels for voltage for current for RTD (Pt100/Pt1000) | 6 max. 4 max. 4 2 |
| Number of output channels for voltage for current | 2 max. 2 max. 2 |
| Galvanic isolation Input to Input Input to Output Output to Output System bus to inputs/outputs | No Yes No Yes |
| Input type Voltage/current RTD | differential 2-, 3-, 4-wire |
| Output type | single ended, common ground, short-circuit proof |
| ADC type | 24 bit $\Delta\Sigma$ |
| DAC type | 16 bit |

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| | |
|---|---|
| Input resolution in process image Voltage Current Temperature | 1 mV (16 bit) 1 μ A (16 bit) 0.1 K (16 bit) |
| Output resolution in process image Voltage Current | 1 mV (16 bit) 1 μ A (16 bit) |
| Max. overall input error (at 25 °C ambient temperature) Voltage (for all ranges) Current (for all ranges) Temperature (for complete range) | ± 10 mV (± 5 mV @ 0...5 V range) ± 20 μ A (± 24 μ A @ 0...24 μ A range) ± 0.5 K |
| Max. overall input error (for -30...+55 °C ambient temperature) Voltage (for all ranges) Current (for all ranges) Temperature (for complete range) | ± 10 mV ± 72 μ A ± 1.5 K |
| Max. overall output error (at 25 °C ambient temperature) Voltage (for all ranges) Current (for all ranges) | ± 15 mV ± 20 μ A |
| Max. overall output error (for -30...+55 °C ambient temperature) Voltage (for all ranges) Current (for all ranges) | ± 15 mV ± 72 μ A |
| 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@3.3 kHz up to 128 LSB@258 kHz |
| Input impedance Voltage Current | >900 k Ω <250 Ω |
| Output impedance Voltage Max. capacitive load | <16 Ω 5 nF @ 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 linear scalable Overtemperature monitoring Overcurrent monitoring Range monitoring |
| Optical indicator | 3 status LEDs (bi-color) |
| Conformity | CE, RoHS |
| UL certification | Yes, 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. |