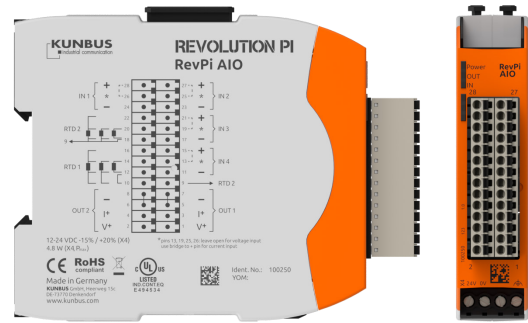


# REVOLUTION PI

## 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 (-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 $\mu$ A (16 bit) 0.1 K (16 bit)
Output resolution in process image Voltage Current	1 mV (16 bit) 1 $\mu$ A (16 bit)
Max. overall input error (at 25 °C ambient temperature) Voltage (for all ranges) Current (for all ranges) Temperature (for complete range)	$\pm 10$ mV ( $\pm 5$ mV @ 0...5 V range) $\pm 20$ $\mu$ A ( $\pm 24$ $\mu$ A @ 0...24 $\mu$ A range) $\pm 0.5$ K
Max. overall input error (for -30...+55 °C ambient temperature) Voltage (for all ranges) Current (for all ranges) Temperature (for complete range)	$\pm 10$ mV $\pm 72$ $\mu$ A $\pm 1.5$ K
Max. overall output error (at 25 °C ambient temperature) Voltage (for all ranges) Current (for all ranges)	$\pm 15$ mV $\pm 20$ $\mu$ A
Max. overall output error (for -30...+55 °C ambient temperature) Voltage (for all ranges) Current (for all ranges)	$\pm 15$ mV $\pm 72$ $\mu$ 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 $\Omega$ <250 $\Omega$
Output impedance Voltage Max. capacitive load	<16 $\Omega$ 5 nF @ 1 k $\Omega$
Max. load resistance for current output	600 $\Omega$
Min. load resistance for voltage output	1 k $\Omega$
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