## **REVOLUTION PI**

## **RevPi AIO**

Article No.: 100250



## **Technical Data**

Compliance	EN61131-2
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 24V (full load) max. 400 mA at 12V (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   010 V   05 V
Current measuring range	020 mA   024 mA   420 mA   ±25 mA
Temperature measuring range	-200+850 °C
Voltage output range	±10 V   ±11 V   ±5 V   ±5.5 V   010 V   011 V   05 V   05.5 V
Current output range	020 mA   024 mA   420 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 ΔΣ
DAC type	16 bit

Γ	
Input resolution in process image Voltage	1 mV (16 bit)
Current	1 μA (16 bit)
Temperature	0.1 K (16 bit)
Output resolution in process image	
Voltage Current	1 mV (16 bit) 1 μA (16 bit)
	T PA (TO DIC)
Max. overall input error (at 25 °C ambient temperature)	±10 mV//5 x// 0.0 . 5 // x// 2.1
Voltage (for all ranges)  Current (for all ranges)	±10 mV (±5 mV @ 05 V range) ±20 μA (±24 μA @ 024 μA range)
Temperature (for complete range)	±0.5 K
Max. overall input error (for -30+55 °C ambient temperature)	
Voltage (for all ranges)	±10 mV
Current (for all ranges)	±72 µA
Temperature (for complete range)	±1.5 K
Max. overall output error (at 25 °C ambient temperature)	
Voltage (for all ranges)	±15 mV
Current (for all ranges)	±20 μA
Max. overall output error (for -30+55 °C ambient temperature)	
Voltage (for all ranges)	±15 mV
Current (for all ranges)	±72 μΑ
Input conversion time (data rate in process image)	81000 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	>900 kΩ
Current	<250 Ω
Output impedance	
Voltage Max. capacitive load	$<$ 16 $\Omega$ $=$ 5 nF $\oplus$ 1 k $\Omega$
	-
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 indicator	3 status LEDs (bi-color)