REVOLUTION PI

RevPi MIO



Technical Data

Item No.: 100323

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
Power supply	24 V DC (10.8 … 28.8 V DC)
Maximum power consumption	10 W (system)
Approved operating temperature	-20 … +55 °C
Approved storage temperature	-40 … +85 °C
Max. relative humidity (at 40 °C)	93 % (non-condensing)
Interfaces	8 analog inputs
	8 analog outputs
	4 digital inputs/outputs

Analog Inputs

Measurement range	0 … 10 V DC
Input impedance	>900 kΩ [1]
	20 kΩ [2]
Max. overall input error	±0.3 % (of full-scale range)
Sample rate	8 ms / 125 Hz
Resolution	1 mV (process image)
Galvanic isolation 24 V supply	Yes[1]
	No[2]
Analog input modes	Analog input, logic level input

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Analog Outputs

Output voltage	0 … 10 V DC
Max. output current	10 mA 10 V @ 1 K
Max. overall output error	±0.3 % (of full-scale range)
Data control rate	1 PiBridge cycle
Resolution	4.48 mV
Galvanic isolation 24 V supply	Yes[1]
	No[2]
Analog output modes	Analog output, logic level output

Digital Inputs/Outputs

Description	Level detection (threshold 1 V) [1]
	Type 3 inputs according to EN 61131-2 [2]: – Threshold from high to low: 7 V – Threshold from low to high: 10 V – Input current 2.4 mA
GPO [PIN OUT]	U_{high} = 22 V (with I_{high} <20 mA) [1] U_{high} = positive supply voltage, max. 200 mA [2] Short-circuit proof Feedback via GPI [PIN IN] (error message possible)
Digital modes	Digital input, digital output, PWM input, PWM output, pulse input, pulse output, encoder input
EMC interference emission	According to EN 61000-6-4 interference emission for industrial environments[1]
	According to EN 61000-6-3 interference emission of devices in residential areas[2]
EMC immunity	According to EN 61000-6-2; a shielded cable is required for the analog I/Os for cable lengths over 3 m.
Optical display	3 status LEDs (bi-color)
Conformity	CE, RoHS

[1] Applies up to product revision 1.1 (indicated on front of housing).

[2] Applies to product revision 1.2 (indicated on front of housing).