



TM7BAI4●LA,
TM7BAO4●LA,
TM7BAM4●LA

Analog I/O expansion blocks

Max. no. of channels	Input range	Output range	Resolution	Sensor and actuator connection	Communication bus	Reference	Weight kg/lb
4 input	Voltage -10...+10 V $\pm$	—	11 bits + sign	4 female M12 connectors	TM7 bus	TM7BAI4VLA	0.200/ 0.441
	Current 0...20 mA	—	12 bits	4 female M12 connectors	TM7 bus	TM7BAI4CLA	0.200/ 0.441
	Pt 100, Pt 1000 temperature probe KTY 10, KTY 84 silicon temperature probe Resistance 0...3,276 Ω	—	16 bits	4 female M12 connectors	TM7 bus	TM7BAI4TLA	0.200/ 0.441
	J, K, S thermocouple Voltage 0...65,536 μ V	—	16 bits	4 female M12 connectors	TM7 bus	TM7BAI4PLA	0.200/ 0.441
4 output	—	Voltage -10...+10 V $\pm$	11 bits + sign	4 female M12 connectors	TM7 bus	TM7BAO4VLA	0.200/ 0.441
	—	Current 0...20 mA	12 bits	4 female M12 connectors	TM7 bus	TM7BAO4CLA	0.200/ 0.441
2 input + 2 output	Voltage -10...+10 V $\pm$	Voltage -10...+10 V $\pm$	11 bits + sign	4 female M12 connectors	TM7 bus	TM7BAM4VLA	0.200/ 0.441
	Current 0...20 mA	Current 0...20 mA	12 bits	4 female M12 connectors	TM7 bus	TM7BAM4CLA	0.200/ 0.441

Architecture and connection cables

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Separate parts

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Configuration software

■ EcoStruxure Machine Expert software: please refer to catalog Ref. [DIA3ED2180701EN](#)