

Modicon TM3

I/O expansion modules for Modicon controllers

Analog I/O modules



TM3AI2H TM3AI4



TM3TI4, TM3TI4D TM3AI8



TM3TI8T



TM3AQ2 TM3AQ4



TM3TM3 TM3AM6



TM200RSRCMC

References

Modicon TM3 analog input modules

Number and type of channels	Input range	Output range	Resolution	Input terminal block (1) Interval (mm/in.)	Reference	Weight kg/ lb
2 voltage/current inputs	-10...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA	—	16 bits or 15 bits + sign	Screw 5.08/0.2	TM3AI2H	0.115/ 0.254
				Spring 5.08/0.2	TM3AI2HG	0.100/ 0.220
4 voltage/current inputs	-10...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA	—	12 bits or 11 bits + sign	Screw 3.81/0.15	TM3AI4	0.110/ 0.243
				Spring 3.81/0.15	TM3AI4G	0.100/ 0.220
4 voltage/current or temperature inputs (2)	- Thermocouples (3) (J, K, R, S, B, T, N, E, C) - Temperature probes (RTDs) (Ni100, Ni1000, PT100, PT1000) -0...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA)	—	16 bits or 15 bits + sign	Screw 3.81/0.15	TM3TI4	0.110/ 0.243
				Spring 3.81/0.15	TM3TI4G	0.100/ 0.220
4 differential temperature inputs	Thermocouples (J, K, R, S, B, T, N, E, C), non-isolated	—	16 bits or 15 bits + sign	Screw 3.81/0.15	TM3TI4D	0.110/ 0.243
				Spring 3.81/0.15	TM3TI4DG	0.100/ 0.220
8 voltage/current inputs	-10...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA	—	12 bits or 11 bits + sign	Screw 3.81/0.15	TM3AI8	0.110/ 0.243
				Spring 3.81/0.15	TM3AI8G	0.100/ 0.220
8 temperature inputs	- Thermocouples (3) (J, K, R, S, B, T, N, E, C) - NTC and PTC thermistors	—	16 bits or 15 bits + sign	Screw 3.81/0.15	TM3TI8T	0.110/ 0.243
				Spring 3.81/0.15	TM3TI8TG	0.100/ 0.220

Modicon TM3 analog output modules

2 voltage/current outputs	—	-10...+10 VDC, 0...+10 VDC/ 0...20 mA 4...20 mA	12 bits or 11 bits + sign	Screw 5.08/0.2	TM3AQ2	0.115/ 0.254
				Spring 5.08/0.2	TM3AQ2G	0.100/ 0.220
4 voltage/current outputs	—	-10...+10 VDC, 0...+10 VDC/ 0...20 mA 4...20 mA	12 bits or 11 bits + sign	Screw 5.08/0.2	TM3AQ4	0.115/ 0.254
				Spring 5.08/0.2	TM3AQ4G	0.100/ 0.220

Modicon TM3 mixed analog I/O modules

2 temperature or voltage/current inputs (2) and 1 voltage/current output	- Thermocouples (3) (J, K, R, S, B, T, N, E, C) - Temperature probes (RTDs) (Ni100, Ni1000, PT100, PT1000) -0...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA	-10...+10 VDC, 0...+10 VDC/ 0...20 mA 4...20 mA	16 bits or 15 bits + sign (for inputs) 12 bits or 11 bits + sign (for output)	Screw 5.08/0.2	TM3TM3	0.115/ 0.254
				Spring 5.08/0.2	TM3TM3G	0.100/ 0.220
4 voltage/current inputs and 2 voltage/current outputs	-10...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA	-10...+10 VDC, 0...+10 VDC/ 0...20 mA, 4...20 mA	12 bits or 11 bits + sign (for inputs and outputs)	Screw 3.81/0.15	TM3AM6	0.110/ 0.243
				Spring 3.81/0.15	TM3AM6G	0.100/ 0.220

Separate parts

Designation	Description	Unit reference	Weight kg/ lb
Shielding connection clamps Sold in lots of 25	Assembly and grounding of the cable shielding. Pack of 25 clamps including 20 for Ø 4.8 mm (0.189 in.) cable and 5 for Ø 7.9 mm (0.311 in.) cable	TM200RSRCMC	—
Mounting kit Sold in lots of 10	For mounting analog I/O modules on a plate or panel	TMAM2	0.065/ 0.143
Set of I/O terminal blocks	4 x 10-way and 4 x 11-way removable screw terminal blocks for TM3AI4, TM3TI4, TM3AI8, TM3TI8, and TM3AM6 modules	TMAT2MSET	0.127/ 0.280
	4 x 10-way and 4 x 11-way removable spring terminal blocks for TM3AI4G, TM3TI4G, TM3AI8G, TM3TI8G, and TM3AM6G modules	TMAT2MSETG	0.127/ 0.280

(1) Removable terminal blocks supplied with each module.

(2) Each input can be configured independently for temperature or voltage/current.

(3) Use isolated thermocouples only.