

Modicon M221

Programmable logic controller for hardwired architectures

Modicon M221 logic controllers

TM221C16R, TM221C16T,
TM221C16UTM221CE16R, M221CE16T,
TM221CE16UTM221C24R, M221C24T,
TM221C24UTM221CE24R, TM221CE24T,
TM221CE24UTM221C40R, TM221C40T,
TM221C40UTM221CE40R, TM221CE40T,
TM221CE40U

TMC2AI2



TMC2AQ2V



TMC2AQ2C



TMC2TI2



TMC2SL1



TMC2PACK01



TMC2HOIS01



TMC2CONV01

References

Modicon M221 logic controllers (1)

Number of logic I/O	Logic inputs	Logic outputs	Analog inputs	Integrated communication ports (2)		Reference	Weight kg/lb
				Ethernet (RJ 45)	Serial link (RJ 45)		
■ 100-240 V ~ power supply							
16 inputs/outputs	9 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	7 relay outputs	2 x 0...10 V inputs	—	1	TM221C16R	0.346 0.763
				1	1	TM221CE16R	0.346 0.763
24 inputs/outputs	14 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	10 relay outputs	2 x 0...10 V inputs	—	1	TM221C24R	0.395 0.871
				1	1	TM221CE24R	0.395 0.871
40 inputs/outputs	24 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	16 relay outputs	2 x 0...10 V inputs	—	1	TM221C40R	0.456 1.005
				1	1	TM221CE40R	0.456 1.005
■ 24 V $\square$ power supply							
16 inputs/outputs	9 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	7 source transistor outputs, inc. 2 high-speed outputs	2 x 0...10 V inputs	—	1	TM221C16T	0.346 0.763
				1	1	TM221CE16T	0.346 0.763
24 inputs/outputs	14 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	10 source transistor outputs, inc. 2 high-speed outputs	2 x 0...10 V inputs	—	1	TM221C24T	0.395 0.871
				1	1	TM221CE24T	0.395 0.871
40 inputs/outputs	24 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	16 source transistor outputs, inc. 2 high-speed outputs	2 x 0...10 V inputs	—	1	TM221C40T	0.456 1.005
				1	1	TM221CE40T	0.456 1.005
16 inputs/outputs	9 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	7 sink transistor outputs, inc. 2 high-speed outputs	2 x 0...10 V inputs	—	1	TM221C16U	0.558 1.230
				1	1	TM221CE16U	0.626 1.380
24 inputs/outputs	14 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	10 sink transistor outputs, inc. 2 high-speed outputs	2 x 0...10 V inputs	—	1	TM221C24U	0.770 1.698
				1	1	TM221CE24U	0.570 1.257
40 inputs/outputs	24 sink/source 24 V $\square$ inputs, inc. 4 high-speed inputs	16 sink transistor outputs, inc. 4 high-speed outputs	2 x 0...10 V inputs	—	1	TM221C40U	0.630 1.389
				1	1	TM221CE40U	0.780 1.720

Options for Modicon TM221C●●●● logic controllers (3)

Description	Function	Reference	Weight kg/lb
I/O cartridges	2 analog inputs (12-bit resolution) configurable as:	TMC2AI2	0.025
	- 0...10 V voltage		0.055
	- 0...20 mA/4...20 mA current	TMC2AQ2V	0.025
	Screw terminal version		0.055
	2 analog outputs (12-bit resolution) 0...10 V voltage	TMC2AQ2C	0.025
	Screw terminal version		0.055
	2 analog outputs (12-bit resolution) 4...20 mA current	TMC2TI2	0.025
	Screw terminal version		0.055
	2 temperature inputs (12-bit resolution) type K, J, R, S, B, E, T, N, C, PT100, PT1000, NI100, NI1000	TMC2TI2	0.025
	Screw terminal version		0.055
Communication cartridge	1 additional serial link on screw terminal block	TMC2SL1 (4)	0.025 0.055
Cartridges for specific application	Hoisting application	TMC2HOIS01	0.025 0.055
	Packaging application	TMC2PACK01	0.025 0.055
	Conveyor system application	TMC2CONV01 (4)	0.025 0.055

(1) M221 controllers are supplied with:

- removable screw terminal blocks for connecting the I/O
- a removable screw terminal block for connecting the power supply
- a button cell backup battery (BR2032 or CR2032X)
- a cable for connecting the analog inputs

(2) Each M221 logic controller has an embedded USB mini-B programming port.

(3) One cartridge for controllers with 16 and 24 I/O. Two cartridges maximum for controllers with 40 I/O, only one of which can be a communication cartridge.

(4) Just one cartridge per controller.