P1-M412-04THM Cut Sheet

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Productivity1000 PLC, 24 VDC required, Ethernet, serial and USB C ports, microSD card slot, Analog Input: 4-channel, thermocouple.

For complete product information, please see this item on our store at the following link:

https://www.automationdirect.com/pn/P1-M412-04THM

Technical Specifications

Brand	Productivity1000
Item	PLC
Total Memory	Up to 32 MB
Ladder Memory	Up to 32 MB
User Data Memory	Up to 32 MB
Removable Media Type	MicroSD card slot
Programming Language	Ladder
Programming Software	Productivity Suite programming software v4.5 or later
Communication Port and Connection Type(s)	• (1) Ethernet 10/100Base-T (RJ45) • (1) RS-232 (RJ12) • (1) RS-485 (4-pin terminal) • (1) USB C
Port Protocol(s)	• MQTT Client • MQTTs Client • Modbus RTU Master/Slave • Modbus TCP • ASCII In/out • TCP/IP • UDP/IP • EtherNet/IP explicit messaging scanner/ adapter • EtherNet/IP implicit messaging scanner/ adapter • programming and monitoring • webserver (secure HTTPs)

Port Speed(s)	• 10/100 Mbps • up to 115.2k baud
Real Time Clock/Calendar	No
Retentive Memory	Yes
Battery Backup	No
Maximum Expansion Modules Allowed	2
External Power Requirement	24 VDC
Number of Analog Input Channels	4
Analog Input Signal Type	Thermocouple
Input Resolution	16-bit
Input Thermocouple Signal Type	J, E, K, R, S, T, B, N, C
Input Voltage Signal Range	0–1.25 VDC, 0–39.0625 mVDC, ±39.0625 mVDC, ±78.125 mVDC, 0–156.25 mVDC and ±156 mVDC
Maximum Number of PID Loops	100+ (configurable to memory limit)
Includes	(1) P1-10RTB screw terminal block
Additional Information	Optional P1-10RTB-1 spring clamp terminal block sold separately. Pre-wired ZIPLinks not available for temperature modules

Agency Approvals

UL Listed File #	E139594
UL Recognized File #	None
UL Hazardous File #	None
CE	View CE declarations
CSA File #	None
RoHS Status	Yes (See CE Doc)
EU REACH	View EU REACH document

Dimensional Drawings

2D Drawing PDF Link:
https://cdn.automationdirect.com/static/drawings/2d/P1-M412-04THM.pdf
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