

***Three embedded communication ports provide excellent communications capabilities.***

The Rockwell Automation Allen-Bradley® MicroLogix™ 1400 Programmable Logic Controller combines features such as EtherNet/IP, online editing, and a built-in LCD and enhanced features including high I/O count, a high speed counter/PTO and enhanced network capabilities.

Three embedded communication ports provide excellent communications capabilities. The controller offers an isolated RS232C/RS485 combination port, a non-isolated RS232C port and an RJ-45 port for 10/100 Mbps EtherNet/IP peer-to-peer messaging, DNP3 over IP and Modbus TCP/IP protocol.

The built-in back lit LCD allows for Ethernet network configuration, display of floating point values on a user configurable display and reading or writing of any binary, integer and long file elements in the data table.

The controller includes both RSLogix 500 programming software (Version 8.1 and above) as well as RSLogix Micro programming software.



**Key Features**

- ✓ Up to 7 expansion I/O modules for a maximum of 256 discrete I/O
- ✓ Up to 6 embedded 100 kHz high-speed counters (on controllers with dc inputs)
- ✓ 2 Serial ports with DF1/DH485/Modbus RTU/DNP3/ASCII protocol support
- ✓ Ethernet port provides Ethernet/IP, DNP3 over IP and Modbus TCP/IP protocol support as well as Web server and email capabilities
- ✓ Back lit LCD allows you to view controller and I/O status and provides a simple interface for messages, bit/integer monitoring and manipulation

## Technical Specifications

<b>Input Power</b>	24V DC
<b>Memory</b>	non-volatile battery backed RAM
<b>User Program/User Data Space</b>	10K/10K configurable
<b>Data Logging/Recipe Storage</b>	128 K (without Recipe) / up to 64 K (after subtracting Data Logging)
<b>Battery Back-up</b>	Yes
<b>Back-up Memory Module</b>	Yes
<b>Digital Inputs</b>	(12) Fast 24 V DC (8) Normal 24 V DC
<b>Digital Outputs</b>	(6) Relay (3) Fast DC (3) Normal DC
<b>Serial Ports</b>	(1) RS232C/RS485*, (1) RS232C**
<b>Serial Protocols</b>	DF1 Full Duplex, DF1 Half Duplex Master/Slave, DF1 Radio Modem, DH-485, Modbus RTU Master/Slave, ASCII, DNP 3 Slave
<b>Ethernet Ports</b>	(1) 10/100 Ethernet/IP port
<b>Ethernet Protocols</b>	Ethernet/IP messaging, DNP3 over IP and Modbus TCP/IP
<b>Trim Potentiometers</b>	2 Digital
<b>High-Speed Inputs</b>	Up to 6 channels @ 100 kHz
<b>Real Time Clock</b>	Yes, embedded
<b>PID</b>	Yes (limited by loop and stack memory)
<b>PWM /PTO</b>	3 channel PTO (100 kHz); PWM (40kHz)
<b>Embedded LCD</b>	Yes
<b>Floating Point Math</b>	Yes
<b>Online Editing</b>	Yes
<b>Operating Temperature</b>	-20°C to +60°C
<b>Storage Temperature</b>	-30°C to +85°C

\* Isolated. RS232/RS485 combo port. Same as MicroLogix 1100 Comm 0

\*\* Non-isolated RS232. standard D-sub connector.



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