

MicroLogix 1400 Controllers

Specifications

General Specifications

Specification	1766 Controllers
Operating Temperature	-20...60 °C (-4...140 °F)
Nonoperating Temperature	-40...85 °C (-40...185 °F)
Relative Humidity	5...95% noncondensing
Vibration	3 g at 10... 500 Hz
Operating Shock	30 g
Nonoperating Shock	Panel mount: 50 g DIN mount: 40 g
Certifications*	UL Listed Industrial Control Equipment for use in Class 1, Division 2, Hazardous Locations, Groups A, B, C, D CE marked for all applicable directives C-Tick marked for all applicable acts

* When product is marked. See the Product Certification link at www.ab.com for declarations of Conformity, Certificates, and other certification details

MicroLogix 1400 Controllers

	MicroLogix 1400 Controllers with Digital I/O			MicroLogix 1400 Controllers with Digital and Analog I/O		
	1766-L32BWA	1766-L32AWA	1766-L32BXB	1766-L32BWAA	1766-L32AWAA	1766-L32BXBA
Line Voltage	120/240V AC		24V DC	120/240V AC		24V DC
Memory Size and Type	20 kB battery-backed RAM: 10 kB user program 10 kB user data					
Data Elements	configurable, user-defined file structure, 10 KB max. data size					
Data Logging	128 KB (without recipe), 64 KB recipe storage					
Battery Backup	Yes					
Number of Inputs	(12) Fast 24V DC (8) Normal 24V DC	(20) 120V AC	(12) Fast 24V DC (8) Normal 24V DC	(12) Fast 24V DC (8) Normal 24V DC (4) Analog Voltage Inputs	(20) 120V AC (4) Analog Voltage Inputs	(12) Fast 24V DC (8) Normal 24V DC (4) Analog Voltage Inputs
Number of Outputs	(12) Relay	(12) Relay	(6) Relay (3) Fast DC (3) Normal DC	(12) Relay (2) Analog Voltage Outputs	(12) Relay (2) Analog Voltage Outputs	(6) Relay (3) Fast DC (3) Normal DC (2) Analog Voltage Outputs
Serial Port	(1) RS-232C/RS-485 (1) RS-232C‡					
Serial Protocols	DF1 full-duplex DF1 half-duplex master/slave DF1 radio modem DH-485 Modbus RTU master/slave ASCII DNP3 slave					
Ethernet Port	(1) 10/100 EtherNet/IP port					
Ethernet Protocols	EtherNet/IP messaging only Modbus TCP/IP DNP3 Over IP					
Trim Potentiometers	2 digital					
High-Speed Inputs (Pulse Catch)	Up to 6 channels @ 100 kHz	—	Up to 6 channels @ 100 kHz	Up to 6 channels @ 100 kHz	—	Up to 6 channels @ 100 kHz
Real-time Clock	Yes, embedded					
PID	Yes (limited by loop and stack memory)					
Pulse Width Modulated	—	—	3 channels @ 40 kHz	—	—	3 channels @ 40 kHz
Pulse Train Outputs	—	—	3 channels @ 100 kHz	—	—	3 channels @ 100 kHz
Dual Axis Servo Control	—	—	Through embedded PTO	—	—	Through embedded PTO
Embedded LCD	Yes					
Floating Point Math	Yes					
Online Editing	Yes					

* Isolated RS-232C/RS-485 combo port.

‡ Nonisolated RS-232C with standard D-sub connector.

