



VersaMax[®] Nano and Micro

New Expansion Units

Data Sheet

GE Fanuc Automation

If you want powerful control without the need for high-end systems, then the VersaMax Micro PLC is ideal. We cut the size, but not the functionality to give you a big-featured PLC in a compact package.

The new VersaMax Micro expansion units expand application solutions, reduce panel space, and lower cost. VersaMax Micro expansion units are now available with 28-point discrete I/O and analog I/O. Benefits of the new units include allowing the user to optimize size and minimize cost.

The 28-point expansion units enable the VersaMax Micro to support up to 140 I/O. Expansion units are available in 12VDC, 24VDC, or 120/240VAC power supplies and have a wide range on input and output voltages. There are eight new 28-point expansion units, which can be combined with the 14-point and analog expansion units.

The analog expansion units come with four differential analog inputs and two single-ended analog outputs. These units are compatible with all micro CPUs (Firmware 2.0 or higher). VersaMax Micro supports up to 18 analog inputs and nine analog outputs. Requires VersaPro 2.3 and above or Logic Developer 2.6 and above.



The new high-density 28-point expansion units and analog expansion units compliment the 14-point units to solve a variety of applications.

Product Features:

VersaMax Micro CPU Units:

- Removable I/O terminal strips enable easy wiring and maintenance.
- Serial ports support SNP (Series Ninety Protocol), Modbus Slave and Serial Read/Write.
- RS-232 port and RS-485 port for master/slave and multi-drop applications are available.
- Time and date stamping is accomplished using the Real Time Clock on 23/28 point models.
- Complex applications that require large amounts of memory can easily fit into the standard 18Kbytes of memory for programs and 2K words (512 for 14-point CPU) of data storage.
- (4) High Speed Counters and (4) PWM/Pulse Train Outputs (On DC models only)

VersaMax Discrete Expansion Units:

- Removable I/O terminal strips
- 24VDC User power supply provided for sensors and operator interfaces
- High Amperage 10 Amp outputs available

VersaMax Analog Expansion Units:

- Four analog inputs support 0 to 10VDC, +/-10VDC, 0 to 20 mA, or 4 to 20 mA
- Two analog outputs include 0 to 10VDC, 0 to 20 mA, or 4 to 20 mA

Application Benefits:

- The wide range of communications options make the VersaMax Micro PLC ideal for SCADA, Modem, Pager, Bar Code Readers, and other ASCII serial devices.
- Rugged construction, electrical and vibration standards designed into the product make it suitable for difficult applications.
- Programming, troubleshooting and monitoring can be accomplished over modems, multi-drop RS-485 or Ethernet (optional VersaMax SE Ethernet interface).
- VersaMax Micro is ideal for applications such as packaging, assembly, and testing.
- Controlling your process is easy with the VersaMax Micro, using the powerful instruction set that includes PID, Floating Point Math and Subroutines.
- Choose from a wide variety of expansion units (over 19 types) to maximize your application.
- Panel layout is easy using the VersaMax Micro I/O expansion units. Connection cables come in 0.1, 0.5 and 1 meter, and the total length from PLC to last expansion unit is 2 meters.
- GE Fanuc also offers a full line of operator interfaces to satisfy a wide range of applications.

VersaMax Micro Specifications

Controller Specifications				
General Specifications	Controller Types			
	Nano 10 Point CPU	Micro 14 Point CPU	Micro 28 Point and 23 Point CPU	
Processor Type	Hitachi Super H Processor Operating at 28.0 MHz			
Execution Time (Per Boolean Operation)	1.2 μ sec.		1.0 μ sec.	
Program Storage	1Meg FLASH. RAM backed by SuperCap		1 Meg FLASH. RAM backed by SuperCap with optional battery	
User Program Logic Memory	2K bytes		18K bytes	
Real Time Clock Support	No		Yes	
Physical I/O built-in to the Nano or Micro without expansion	10 Point Digital: 6 In / 4 Out Analog: 1 In (Opt.)	14 Point Digital: 8 In / 6 Out	28 Point Digital: 16 In / 12 Out	23 Point Digital: 13 In /10 Out Analog: 2 In / 1 Out
Maximum Physical I/O Capacity (CPUs Supports up to 4 Expansion Units)	No Expansion	Digital: 72 In /54 Out Analog: 16 In/ 8 Out	Digital: 80 In / 60 Out Analog: 16 In /8 Out	Digital: 65 In /58 Out Analog: 18 In / 9 Out
I/O and Register Addressing				
Discrete Inputs	512 bits (%I0001 to 512)			
Discrete Outputs	512 bits (%Q0001 to 512)			
Discrete Global References	1280 bits (%G001 to 1280)			
Discrete Internal Coils (Battery Backed)	1024 bits (%M001 to 1024)			
Discrete Temporary Coils	256 bits (%T0001 to 256)			
Registers (Battery or SuperCap Backup)	256 words (%R01 to 256)		2048 words (%R001 to 2048)	
Analog and High Speed Counter Inputs	128 Words (%AI001 to 128)			
Analog Outputs	128 Words (%AQ001 to 128)			
Timers/Counters	85 Maximum		682 Maximum	
Memory Retention (Typical at 25C)				
Temporary Memory Data Retention	3 Days from SuperCap		30 Minutes from SuperCap	
Battery Back-up Option	Not Available		4 months at 40C	
Motion Control				
High Speed Counter (DC input models only)	10 kHz (Maximum of 4 Type A counters or 1 Type B counter)			
Pulse Train/PWM (DC output models only)	5 kHz (Maximum of four)			
Communications				
Serial Ports	(1) RS-232		(1) RS-232 and (1) RS-485	
Protocols Supported	SNP, SNPX and Modbus Slave			
Master/Slave	Slave Only		Master and Slave	
Modem Compatible	Yes			
Multi-drop	Yes, with converter		Yes on port 2	
Serial Read and Write Commands	Yes		Port 2 only	
Serial Port Connector Type	RJ-45		RJ-45 – port 1 ; DB-15 – port 2	
Ethernet Connection via the VersaMax SE (Serial to Ethernet Converter)	Protocol Support: SRTP Ethernet protocol or Modbus TCP Hardware Support: 10Mbps, 10baseT and RS-232 or RS-485.			
Hardware Specifications				
Run/Stop Switch	Yes			
Removable Terminal Strips	No	Yes		
Mounting	35mm DIN Rail or Panel Mount			
Instruction Set – Over 100 Different Instructions Available				
Rotate Right/Rotate Left Shift Right/Shift Left Bit Sequencer Subroutines PID Square Root =, \neq , >, <, \geq , \leq , Range Search On/Off Delay Timer Drum Sequencer Covert to Real to Word Covert to BCD – 4	Logic AND, Logic OR Bit Test, Set, Clear Do I/O Comment Move Trigonometric Functions Contacts, Coils Array Move Up Counter High Speed Counter Truncate Real Number Convert to Signed Integer	Exclusive OR Masked Compare Call Master Control Relay Block Move, Clear Logarithmic Exponential Fault, No Fault, Contacts Time Tick Contacts Down Counter Serial Read/Write +, -, x, / and modulo Convert to Double Precision Signed Integer	Logic Invert NOT Bit Position End Service Request Shift Register Convert to Radians/Degrees Alarm Contacts On Delay Stopwatch Timer Floating Point Math Motion Moves Scaling Covert to Real	

VersaMax Micro Specifications

Power Supply Specification for CPU, Discrete and Analog Expansion Units			
120/240 VAC Power Supply			
Voltage Range	85 to 264VAC		
Frequency	50 (-5%) to 60 (+5%)Hz		
Hold Up	20 ms at 100VAC		
Inrush Currents	15 Amp Maximum at 100VAC and 40 Amp Maximum at 200VAC		
Input Current	0.2 Amp typical at 100VAC and 0.1 Amp at 200VAC		
Input Power Supply Rating	35VA		
24VDC User Power	200mA (Not available on AC Output models)		
24VDC Power Supply			
Voltage Range	24VDC (19.2 VDC to 30 VDC)		
Hold Up	10 msec at 19.2VDC		
Input Power Supply Rating	8 watts internal + 5 watts out to user 24 VDC out		
Inrush Current	1 amp maximum at 30 VDC		
Inrush Time	10 msec. At 1 amp		
Input Current	0.30 amp typical at 24VDC		
24VDC User Power	200mA		
12VDC Power Supply			
Voltage Range	9.6VDC to 15VDC with a 3.0 milliseconds Hold Up		
Input Power Supply Rating	4 Watts - 14 point units 8 Watts - 28 point units		
Inrush Current	9.2 Amps - 14 point units 9.6 Amps - 28 point units		
Inrush Time	200 msec		
Input Current	300 mAmp - 14 point units 480 mAmp - 28 point units		
Input Voltage Specifications for CPU and Discrete Expansion Modules			
AC Input Specifications			
Voltage Range	85 – 132 VAC, 50 (-5%) to 60 (+5%) Hz		
Maximum Input Voltage	132 V rms, 50/60Hz		
Input Current	7mA rms, (100 VAC, 60Hz)		
Voltage On/Off	ON - Minimum 80 V rms, 4.5mA rms OFF - Maximum 30 V rms, 2 mA rms		
Response On/Off	ON - 25 ms maximum and OFF - 30 ms maximum		
Off State Leakage	0.1 mA		
24VDC Input Specifications			
Rated Input Voltage	24 VDC (Input Voltage Range 0 to 30 VDC)		
Input Current and Resistance	705 mA typical and 2.8 Kohms		
Input Threshold Voltage	ON Voltage – 15 VDC minimum, 4.5 mA maximum OFF Voltage – 5 VDC maximum, 1.5 mA maximum		
Response Time	Configurable - 0.5 to 20 milliseconds.		
12VDC Input Specifications			
Rated Input Voltage	12VDC (Input Voltage Range 0 to 15VDC)		
Input Current and Resistance	9mA typical and 1.3 Kohms		
Input Threshold Voltage	ON Voltage – 9VDC minimum and OFF Voltage – 2.5VDC maximum		
Response Time	Configurable - 0.5 to 20 milliseconds.		
Output Voltage Specifications for CPU and Discrete Expansion Modules			
AC Output Specifications			
Voltage Range and Frequency	100 (-15%) to 240 (+10%) VAC and 50 (-5%) to 60 (+5%) Hz		
Maximum Resistive Load Current	14 point expansion units – 0.5A/point on COM 1 ; 1.2A Max on COM 2 28 point expansion units – 0.5A/point on COM 1/3 ; 1.2A Max on COM 2/4		
Relay Output Specifications			
Relay Type	Low Current Outputs	High Current Outputs	
Operating Voltage	5 to 30 VDC or 5 to 250 VAC		
Leakage Current	15mA or less at 250 VAC		
Maximum UL Pilot Duty Rating	2.0 Amps	10 Amps	
Maximum Resistive Load Rating	2.0 Amps	10 Amps	
Minimum Load	10 mAmps	10 mAmps	
Maximum Inrush	5 Amps per half cycle	14 Amps per half cycle	
Output Response Time	OFF to ON – 15 ms (max) and ON to OFF – 15 ms (max)		
Contact Life: Mechanical	20 million operations		
Contact Life: Electrical	Current: Resistive 2 Amp	Current: Lamp and Solenoid 0.6 Amp	Typical Operations 200,000
	Current: Resistive 10 Amp	Current: Lamp and Solenoid 4 Amp	Typical Operations 100,000
	Current: Resistive 4 Amp	Current: Lamp and Solenoid 1 Amp	Typical Operations 200,000

VersaMax Micro Specifications

24VDC Output Specifications		Low Current Output	High Current Output
Rated Load Voltage		24/12VDC (+10%, -15%)	24/12VDC (+10%, -15%)
Maximum Load Current		0.75 Amp 24VDC ; 0.5 Amp 12VDC	1.0 Amp 24VDC
Maximum Inrush Current		4 Amps for 20msecond, 1 pulse	8 Amps for 20msecond, 1 pulse
Protection Circuit		None. User to provide external fusing.	
Minimum Switching Current		1.0 mA	
Leakage Current		0.1mA (max)	
Output Response Time		OFF to ON - 0.1 ms (max) and ON to OFF - 0.1 ms (max) @ 0.2 Amp	
Output Voltage Drop		0.3VDC (max)	
External Power Supply		10.8 to 28.8VDC	
24VDC ESCP Output Specifications			
Rated Load Voltage		12/24VDC (+10%, -15%)	
Maximum Load Current		14 point units - 2 @ 1.0 amp and 4 @ 0.7 amp 28 point units - 2 @ 1.0 amp and 10 @ 0.7 amp	
Protection Circuit		ESCP (Electronic Short Circuit Protection) with self healing	
Minimum Switching Current		10 mA	
Leakage Current		0.1mA (max)	
Output Response Time		OFF to ON - 0.05 ms (max) and ON to OFF - 0.05 ms (max)	
Output Voltage Drop		0.3VDC (max)	
External Power Supply		10.8 to 28.8VDC	
12VDC Output Specifications			
Rated Load Voltage		12VDC (+20%, -20%)	
Maximum Load Current		0.7A	
Minimum Switching Current		1mA	
Protection Circuit		None. User to provide external fusing.	
Leakage Current		0.1mA (max)	
Output Response Time		OFF to ON - 0.1 ms (max) and ON to OFF - 0.1 ms (max) @ 0.2 Amp	
Output Voltage Drop		0.3VDC (max)	
External Power Supply		9.6 to 14.4VDC	
Analog I/O CPU and Expansion Module Specifications			
Micro Analog Inputs			
Input ranges		0 to 10VDC (10.23 VDC max.) -10 VDC to +10 VDC (10.23 VDC max.) 0 to 20mA and 4 to 20mA (20.47 mA max.)	
Resolution: 0 to 10VDC Range -10 to +10VDC Range 0 to 20mA and 4 to 20mA Range		12 bits (1LSB=2.5 mV) 12 bits (1LSB=2.5 mV) Expansion Unit Only 12 bits (1 LSB=5µA)	
Accuracy		+/- 1% of full scale over full operating temperature range	
Linearity		+/-3 LSB maximum	
Common mode voltage		+/-40 V maximum	
Current input impedance		249 Ohm	
Voltage input impedance		200 K ohms	
Input Filter Time		20 ms to reach 1% error for step input	
Nano Analog Input			
Input range		0 to 10VDC (10.23 VDC max.)	
Resolution: 0 to 10VDC Range		8 bits	
Accuracy		+/- 1% of full scale over full operating temperature range	
Linearity		+/-15 LSB Maximum	
Input Impedance		100K ohms	
Input Filter Time		20msec to reach 1% error for Step input	
Analog Outputs			
Output ranges		0 to 10VDC (10.23 VDC max.) 0 to 20mA and 4 to 20mA (20.47 mA max.)	
Resolution: 0 to 10VDC Range 0 to 20mA and 4 to 20mA Range		12 bits (1LSB=2.5 mV) 12 bits (1 LSB=5µA)	
Accuracy		+/- 1% of full scale over full operating temperature range	
Current: Max Voltage at 20 mA User load Range		10VDC 10 to 500 Ohm	
Output Load Capacitance		2000 pF Maximum	
Output Load Inductance		1 Henry Maximum	
Voltage: Output Loading		10K Ohm Minimum at 10 VDC	
Output Load Inductance		1µF Maximum	
Environmental and Agency Specifications			
Agency Approvals		CE Mark Approved, UL and CUL (Class 1, Div II, A, B, C D)	
Operating/Storage Temperature		Operating 0C to 55C / Storage -10C to +75C	

VersaMax Micro Ordering Information

10 Point CPUs – One Serial Port (RS-232)	
IC200NDR010	CPU, with (6) 12VDC In, (4) Relay Out @ 2 Amp, 12VDC P/S
IC200NDD010	CPU, with (6) 12VDC In, (4) 12VDC Out @ 0.70 Amp, 12VDC P/S
IC200NAL110	CPU, with (6) 12VDC In, (1) Analog Voltage Input, (4) Relay Out @ 2 Amp, 12VDC P/S
IC200NDR001	CPU, with (6) 24VDC In, (4) Relay Out @ 2 Amp, 24VDC P/S
IC200NDD101	CPU, with (6) 24VDC In, (4) 24/12VDC Out @ 0.75 Amp (24VDC) or 0.5 Amp (12VDC), 24VDC P/S
IC200NAL211	CPU, with (6) 24VDC In, (1) Analog Voltage Input, (4) Relay Out @ 2 Amp, 24VDC P/S
14 Point CPUs – One Serial Port (RS-232)	
IC200UDR001	CPU, with (8) 24VDC In, (6) Relay Out @ 2 Amp, 120/240VAC P/S
IC200UDR002	CPU, with (8) 24VDC In, (6) Relay Out @ 2 Amp, 24VDC P/S
IC200UDR003	CPU, with (8) 12VDC In, (6) Relay Out @ 2 Amp, 12VDC P/S
IC200UAA003	CPU, with (8) 120VAC In, (6) 120/240VAC Out @ 0.5 Amp, 120/240VAC P/S
IC200UAR014	CPU, with (8) 120VAC In, (4) Relay Out @ 2 Amp and (2) Relay Out @ 10 Amp, 120/240VAC P/S
IC200UDD104	CPU, with (8) 24VDC In, (2) 24/12VDC Out @ 1 Amp and (4) 24/12VDC Out @ 0.5 Amp, 24VDC P/S
IC200UDD112	CPU, with (8) 12VDC In, (6) 12VDC Out @ 0.70 Amp, 12VDC P/S
28 Point CPUs – One Serial Port (RS-232) and One Serial RS-485 Port	
IC200UDR005	CPU, with (16) 24VDC In, (11) Relay Out @ 2 Amp, (1) 24/12/5 VDC Output, 120/240VAC P/S
IC200UDR010	CPU, with (16) 24VDC In, (12) Relay Out @ 2 Amp, (1) 24/12/5 VDC Output, 24VDC P/S
IC200UDR006	CPU, with (16) 12VDC In, (12) Relay Out @ 2 Amp, 12VDC P/S
IC200UAA007	CPU, with (16) 120VAC In, (12) 120/240VAC Out @ 0.5 Amp, 120/240VAC P/S
IC200UAR028	CPU, with (16) 120VAC In, (10) Relay Out @ 2 Amp and (2) Relay Out @ 10 Amp, 120/240VAC P/S
IC200UDD110	CPU, with (16) 24VDC In, (4) 24/12VDC Out @ 1 Amp and (8) 24/12VDC Out @ 0.5 Amp, 24VDC P/S
IC200UDD120	CPU, with (16) 24VDC In, 24/12VDC ESCP Outputs (2) at 1.0 Amp and (10) @ 0.7 Amp, 24VDC P/S
IC200UDD212	CPU, with (16) 12VDC In, (12) 12VDC Out @ 0.70 Amp, 12VDC P/S
23 Point CPUs Digital and Analog – One Serial Port (RS-232) and One Serial RS-485 Port	
IC200UAL006	CPU, with (13) 24VDC In, (9) Relay Out @ 2 Amp, (1) 24/12/5 VDC Output, (2) Analog Inputs, (1) Analog Outputs, 120/240VAC P/S
IC200UAL005	CPU, with (13) 24VDC In, (9) Relay Out @ 2 Amp, (1) 24/12/5 VDC Output, (2) Analog Inputs, (1) Analog Outputs, 24VDC P/S
IC200UAL004	CPU, with (13) 12VDC In, (10) Relay Out @ 2 Amp, (2) Analog Inputs, (1) Analog Outputs, 12VDC P/S
14 Point Expansion Units	
IC200UEX009	Expansion, (8) 120VAC In, (4) Relay Out @ 2 Amp and (2) Relay Out @ 10 Amp, 120/240VAC P/S
IC200UEX010	Expansion, (8) 120VAC In, (6) 120/240VAC Out @ 0.5 Amp, 120/240VAC P/S
IC200UEX011	Expansion, (8) 24VDC In, (6) Relay Out @ 2 Amp, 120/240VAC P/S
IC200UEX012	Expansion, (8) 24VDC In, (6) Relay Out @ 2 Amp, 24VDC P/S
IC200UEX013	Expansion, (8) 12VDC In, (6) Relay Out @ 2 Amp, 12VDC P/S
IC200UEX014	Expansion, (8) 24VDC In, (6) 24VDC Out (2) Outputs @ 1 Amp and (4) @ 0.75 Amp, 24VDC P/S
IC200UEX015	Expansion, (8) 12VDC In, (6) 12VDC Out @ 0.7 Amp, 12VDC P/S
IC200UEX122	Expansion, (8) 24VDC In, 24/12VDC ESCP Outputs (2) at 1.0 Amp and (4) @ 0.7 Amp, 24VDC P/S
28 Point Expansion Units	
IC200UEX209	Expansion, (16) 120VAC In, (8) Relay Out @ 2 Amp and (4) Relay Out @ 10 Amp, 120/240VAC P/S
IC200UEX210	Expansion, (16) 120VAC In, (12) 120/240VAC Out @ 0.5 Amp, 120/240VAC P/S
IC200UEX211	Expansion, (16) 24VDC In, (12) Relay Out @ 2 Amp, 120/240VAC P/S
IC200UEX212	Expansion, (16) 24VDC In, (12) Relay Out @ 2 Amp, 24VDC P/S
IC200UEX213	Expansion, (16) 12VDC In, (12) Relay Out @ 2 Amp, 12VDC P/S
IC200UEX214	Expansion, (16) 24VDC In, (12) 24VDC Out (2) Outputs @ 1 Amp and (4) @ 0.75 Amp, 24VDC P/S
IC200UEX215	Expansion, (16) 12VDC In, (12) 12VDC Out @ 0.7 Amp, 12VDC P/S
IC200UEX222	Expansion, (16) 24VDC In, 24/12VDC ESCP Outputs (2) at 1.0 Amp and (10) @ 0.7 Amp, 24VDC P/S
Analog Expansion Units	
IC200UEX616	6 Channels 0 to 20ma, 4 to 20ma or 0 to 10VDC – 4 Analog Inputs and 2 Analog Outputs, 12VDC P/S
IC200UEX626	6 Channels 0 to 20ma, 4 to 20ma or 0 to 10VDC – 4 Analog Inputs and 2 Analog Outputs, 24VDC P/S
IC200UEX636	6 Channels 0 to 20ma, 4 to 20ma or 0 to 10VDC – 4 Analog Inputs and 2 Analog Outputs, 120/240VAC P/S
Accessories	
IC200CBL501	I/O Expansion cable, 0.1 meter long (Qty 3). One IC200CBL501 is included with every expansion unit.
IC200CBL505	I/O Expansion cable, 0.5 meter long
IC200CBL510	I/O Expansion cable, 1.0 meter long
IC200CBL500	Programming cable (RJ-45 to DB-9 pin) RS-232, 3 meters long.
IC200ACC403	Battery for 23 and 28 point micro's for data retention and real time clock.
IC200ACC451	Simulator for VersaMax Micro, 8 input toggle switches
IC200ACC415	RS-232 to RS-485 Converter requires IC200CBL500 or equivalent
IC200SET001	Ethernet to Serial Interface Module. 10baseT to RS-232/RS-485 converter. Supports SRTP/SNP and Modbus TCP/Modbus Slave
Programming Software	
IC640VPS002	VersaPro programming software and documentation for VersaMax Micro and Nano Only. Programming cable (IC200CBL500) included. CD Format
IC641VPS002	VersaPro programming software and documentation for VersaMax Micro and Nano Only. No Programming cable (IC200CBL500) included. CD Format

Additional Information can be found on <http://www.gefanuc.com/support/plc/versamaxnm.htm> such as:

- VersaMax Micro User Manual (GFK-1645)
- VersaMax firmware upgrades (free downloads)
- Revision History
- Application Notes

Selection Guide

Step 1: Select the CPU type required for your application

- 10 point (6 Inputs and 4 Outputs) No Expansion: One RS-232 port, 256 Registers and no Real Time Clock
- 14 point (8 Inputs and 6 Outputs): One RS-232 port, 256 Registers and no Real Time Clock
- 28 point (16 Inputs and 12 Outputs): One RS-232 and one RS-485 point, 2K Registers, Real Time Clock and Battery Backup option.
- 23 point (13 Inputs, 10 Discrete Outputs, 2 Analog Inputs, and 1 Analog Outputs): One RS-232 and one RS-485 point, 2K Registers, Real Time Clock and Battery Backup option.

Step 2: Select voltage type for CPU Inputs, Outputs and power source. See previous page for models.

Step 3: If a Nano was selected, go to Step 6. If Micro was selected, select analog or discrete expansion units required. Up to 4 expansion units of any mix or size can be connected to a micro.

Step 4: Select I/O expansion cables. Total length from CPU to last expansion unit cannot exceed 2 meters.

- 0.1 meter (included with every expansion units)
- 0.5 meter (IC200CBL505)
- 1.0 meter (IC200CBL510)

Step 5: If 23 or 28-point micro was selected, do you need a battery for the Real Time Clock or Register data retention? The VersaMax Micro stores both program logic and register data in FLASH or RAM. If FLASH was selected, the program and set points are downloaded to RAM on power-up and is executed from RAM. If power is lost, without a battery, the Super Cap will retain data and program for a short period of time. If the CPU detects that RAM data is corrupt, the CPU will download the program and set points from FLASH if information was stored there. The 23 and 28-point CPUs with battery option will preserve any data that may have been changed via an operator interface or over the network. (Battery part number is IC200ACC403)

Step 6: Select possible external communication options.

- RS-232 to RS-485 Converter (IC200ACC415). This can be used on port one of the VersaMax Micro.
- RS-485 to RS-485 Isolator (IC690ACC903)
- Ethernet Interface (IC200SET001). Serial (RS-232 or RS-485) to Ethernet 10Mbps, 10baseT Ethernet. Supports programming, monitoring and upload/download functions over Ethernet.

Step 7: Selecting Programming software

- VersaPro (IC640VPS002) windows based programming software, documentation and programming cable (IC200CBL500).
- VersaPro (IC641VPS002) windows based programming software, documentation and no cable.

Step 8: Select optional VersaMax DP Operator Interface (Requires programming software IC752DDZ000)

- Timer/Counter/Register access operator interface. 2 x 16 character LCD backlight display and 6 operation keys. No stored messaging, PLC stores messages. Used to monitor and change values in the PLC. Power provided by VersaMax Micro. **(Part number IC200DTX200, requires IC200CBL550 or equivalent)**
- Message Display 2 x 16-character LCD backlight display, 6 function keys, and stores up to 200 messages. External 24VDC power required. **(Part number IC200DTX450, requires IC200CBL555 or equivalent)**
- Message Display 4 x 16-character LCD backlight display, 8 function keys, and stores up to 200 messages. External 24VDC power required. **(Part number IC200DTX650, requires IC200CBL555 or equivalent)**
- Message Display 4 x 20 character LCD backlight display, 8 function keys, numeric keypad, and stores up to 200 messages. External 24VDC power required. **(Part number IC200DTX850, requires IC200CBL555**

Dimensions								
10 Point CPU			14 Point CPU, 14 Point and Analog Expansion			23 CPU, 28 CPU and Expansion		
Height	Width	Depth	Height	Width	Depth	Height	Width	Depth
80mm	75mm	47mm	90mm	95mm	76mm	90mm	150mm	76mm



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