Micro800 Power Requirements⁽¹⁾

Controller/Module	Power Requirement			
Micro810 12-point (with or without LCD)	3 W (5V A for AC module)			
Micro820 20-point ⁽²⁾ (without plug-ins, max)	5.62 W			
Micro830 and Micro850 (without plug-in/expansion I/O) 10/16-point 24-point 48-point	5 W 8 W 11 W			
Plug-in modules, each	1.44 W			
Expansion I/O (system bus power consumption)	2085-I016 - 0.85 W 2085-I032T - 0.95 W 2085-IA8 - 0.75 W 2085-IM8 - 0.75 W 2085-OA8 - 0.90 W 2085-OB16 - 1.00 W 2085-OV16 - 1.00 W 2085-OW8 - 1.80 W 2085-IF4 - 1.70 W 2085-IF8 - 1.75 W 2085-OF4 - 3.70 W 2085-IRT4 - 2.00 W			

⁽¹⁾ When setting up a Micro800 system, verify that total power consumption of the controller, plug-in and expansion I/O does not exceed the output power capacity of the power supply used. See External Power Supply (2080-PS120-240VAC) on page 59 for power supply specifications.

⁽²⁾ Micro820 controllers require a maximum of 8.5 W with plug-ins.

Micro800 Plug-in Modules and Accessories – Features and Compatibility

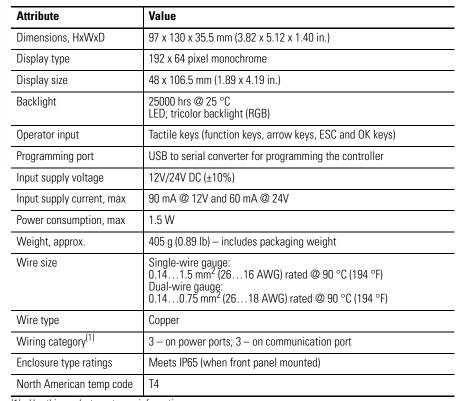
Plug-in / Accessory	Supported by Micro810	Supported by Micro820	Supported by Micro830/Micro850	Feature
1.5" LCD and Keypad	Yes	No	No	backup module for Micro810 controllers
2080-LCD				configure Smart Relay Function Blocks
Micro810 USB Adapter 2080-USBADAPTER	Yes	No	No	USB programming access
External Power Supply 2080-PS120-240VAC	Yes	Yes	Yes	optional controller power supply
RS232/485 Isolated Serial Port 2080-SERIALISOL	No	Yes	Yes	adds additional serial communications with Modbus RTU and ASCII protocols
				isolated for increased noise immunity
Digital Input, Output, Relay, and Combination Modules	No	Yes	Yes	4-channel inputs/outputs or combination modules
2080-IQ4, 2080-IQ40B4, 2080-IQ40V4, 2080-OB4, 2080-OV4, 2080-OW4I				configurable as voltage and current inputs
				sink or source output
				4-channel relay outputs
High Speed Counter 2080-MOT-HSC	No	Yes	Yes	Up to a minimum of 250 KHz differential line driver for improved noise immunity and additional dedicated I/0
				One Quadrature (ABZ) differential inputs alternately configurable for pulse internal, pulse with external direction, A-up and B-down input configurations, and quadrature mode
				User-configurable minimum and maximum values, preset, and Z operation
DeviceNet Scanner 2080-DNET20	No	Yes	Yes	 Scanner mode – scan devices such as CompactBlock™ LDX, PowerFlex® drives, overloads and sensors
Remote LCD 2080-REMLCD	No	Yes	No	Operator interface for configuring such settings as IP address on Micro820 controller
				With RS232 and USB ports
Non-isolated Unipolar Analog Input/Output 2080-IF2, 2080-IF4, 2080-OF2	No	Yes	Yes	adds up to 20 embedded analog I/O with 12-bit resolution (with 48-point controllers)
				• 2 channels for 2080-IF2, 2080-OF2
				• 4 channels for 2080-IF4
Non-isolated Thermocouple 2080-TC2	No	Yes	Yes	 for temperature control, when used with PID 2 channels for 2080-TC2 and 2080-RTD2
Non-isolated RTD 2080-RTD2	No	Yes	Yes	
Memory Module with RTC 2080-MEMBAK-RTC	No	No	Yes	backup project data and application code high accuracy real-time clock
6-Channel Trim Potentiometer Analog Input 2080-TRIMPOT6	No	Yes	Yes	adds six analog presets for speed, position and temperature control

External	Power	Supply	(2080-PS120-240VAC)
LALGIIIAI	1 0000	συμμιγ	12000-1 3 120-240 VAG

Attribute	Value
Dimensions, HxWxD	90 x 45 x 80 mm (3.55 x 1.78 x 3.15 in)
Shipping weight	0.34 kg (0.75 lb)
Supply voltage range ⁽¹⁾	100V120V AC, 1A 200240V AC, 0.5A
Supply frequency	4763 Hz
Supply power	24V DC, 1.6 A
Inrush current, max	24 A @ 132V for 10 ms 40 A @ 263V for 10 ms
Power consumption ⁽²⁾ (Output power)	38.4 W @ 100V AC, 38.4 W @ 240V AC
Power dissipation (Input power)	45.1 W @ 100V AC, 44.0W @ 240V AC
Isolation voltage	250V (continuous), Primary to Secondary: Reinforced Insulation Type Type tested for 60s @ 2300V AC primary to secondary and 1480V AC primary to earth ground.
Output ratings	24V DC, 1.6 A, 38.4 W max.

- (1) Any fluctuation in voltage source must be within 85V...264V. Do not connect the adapter to a power source that has fluctuations outside of this range.
- (2) When setting up a Micro800 system, verify that total power consumption of the controller, plug-in and expansion I/O does not exceed the output power capacity of the power supply used.

Remote LCD (2080-REMLCD)



⁽¹⁾ Use this conductor category information.

