

MAPLE MICRO PLC



PLC-FB0808P**



PLC - FB1616P0202
PLC - FB1616R0202**

FEATURES

- Embedded digital inputs and outputs that are group-isolated.
- PID control, 32 loops with auto-tuning.
- HSC, 20 kHz (kpps), 2 channels, 2 phase, open-collector.
- High speed pulse output*, 100 kHz (kpps), 2 axes, direction-position-speed control.
- 1 Ethernet, 1 RS-232, and 1 RS-485/422 port.
- Supports Modbus RTU master, Modbus TCP/RTU slave, and User Protocol RTU.
- RTC with 10-year lifespan.
- Edit program while in RUN mode.
- Up to 16 digital inputs, 16 digital outputs, 2 analog inputs, and 2 analog outputs.

****PLC-FB1616R0202 does not support high speed pulse output due to the inherent limitation of relay contact speed.**

****PLC-FB0808P does not support OPR control.**

Note: Micro PLC units do not support local expansion capabilities. Other Remote I/O options are available via Modbus RTU.

BENEFITS

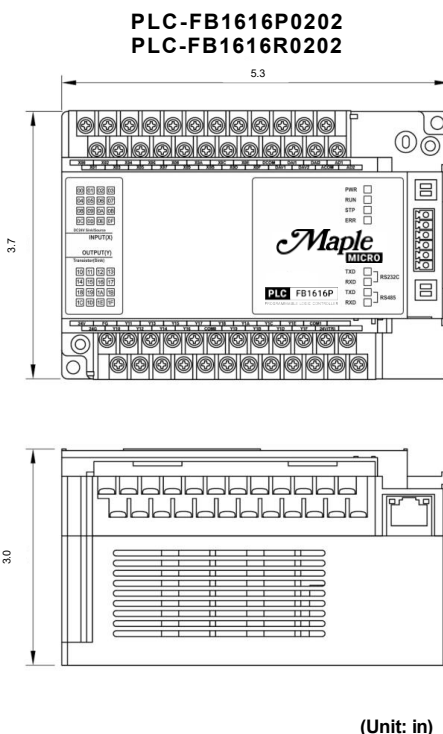
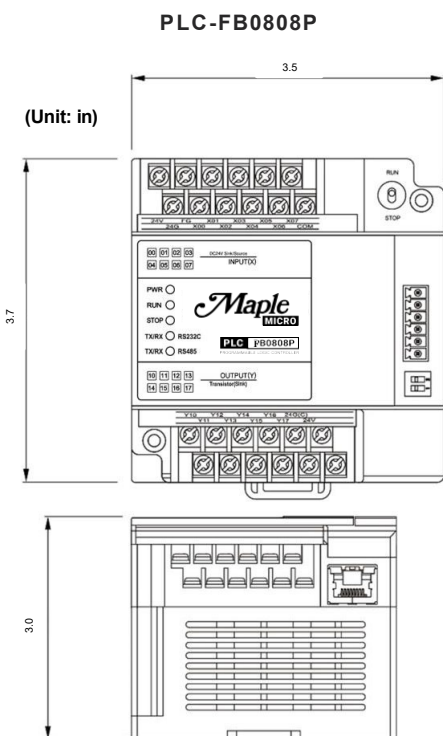
- All-in-one unit.
- Diagnostic LEDs.
- Automatically detects sink/source input, no programming required.

FUNCTIONAL

Part Number	PLC-FB0808P	PLC-FB1616P0202	PLC-FB1616R0202
Power Consumption	2.88 W, 12/24 VDC, 0.12 A at 24 VDC	7.92 W, 12/24 VDC, 0.33 A at 24 VDC	9.60 W, 24 VDC, 0.40 A at 24 VDC
Digital Input Type	Solid State Transistor - Sink/Source		
Digital Output Type	Solid State Transistor - Source		Relay
Analog Input Type	-	Voltage: 0-10 V, 1-10V, 0-5 V, 1-5 V Current: 0-20 mA, 4-20 mA	
Analog Output Type	-	Voltage: 0-10 V (Load resistance > 1 kΩ) Current: 4-20 mA (Load resistance < 600 Ω)	
Number of Channels	(16 Total) 8 Digital Inputs 8 Digital Outputs	(36 Total) 16 Digital Inputs 16 Digital Outputs 2 Analog Inputs 2 Analog Outputs	(36 Total) 16 Digital Inputs 16 Digital Relay Outputs 2 Analog Inputs 2 Analog Outputs
Rated HSC Input Voltage	12 or 24 VDC Note: If using 5V, see our HSC expansion module (IO-SHSC02) Note: Not tied to CPU power input		
Rated Input Current	4 mA		
Digital Input Insulation Method	Photocoupler		
Rated Digital Input Voltage	<u>Digital Input ON</u> CH1-4: 12 or 24 VDC CH5-8: 24 VDC	<u>Digital Input ON</u> CH1-4: 12 or 24 VDC CH5-16: 24 VDC	
Rated Digital Output Voltage	12/24 VDC Note: Separate from CPU power input		24 VDC, 220 VAC (According to Power Supply)
Rated Digital Output Current	1 point = 0.2 A 1 COM = 1 A		1 point = 2 A 1 COM = 5 A
Digital Output Insulation Method	Photocoupler		Relay
Communication Ports	RS-232, 1 Channel RS-485/422, 1 Channel Ethernet, 1 Port		
Utility/Program Port	Mini-B USB, Ethernet, RS-232/485/422		
Programming Specifications	Program Languages: LD (Ladder), IL (Instruction List), FB (Function Block), SFC Program Memory: 10K STEP, Instruction Library: 55 (basic), 389 (advanced) Execution Speed: 300ns/STEP Number of IO Points: 16 or 36 points maximum (depending on model type)		



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PHYSICAL

Part Number	PLC-FB0808P	PLC-FB1616P0202	PLC-FB1616R0202
Product Dimensions (H x W x D)	3.7 x 3.5 x 3.0 in (93 x 90 x 76 mm)	3.7 x 5.3 x 3.0 in (93 x 135 x 75 mm)	
Product Weight	0.53 lb (240 g)	0.91 lb (415 g)	

ENVIRONMENTAL

Item	Specification	Standards
Operating Temperature	-10 - +55 °C (+14 - +131 °F)	-
Storage Temperature	-25 - +80 °C (-13 - +176 °F)	-
Operating/Storage Relative Humidity	5 – 95% Non-condensing	-
Shock	15G	IEC 61131-2
Vibration	0.5G - Continuous 1G - Discontinuous	IEC 61131-2
Square Wave Impulse Noise	±2 kV	-
ESD Immunity	±4 kV - Contact Discharges ±8 kV - Air Discharges	IEC 61131-2 IEC 61000-4-2
Radiated Electromagnetic Immunity	80-1000 MHz, 10 V/m	IEC 61131-2 IEC 61000-4-3
Surge Transient Immunity	2 kV - CPU, Power 2 kV - Digital I/O (VAC) 1 kV - Digital I/O (VDC) 1 kV - Communication	IEC 61131-2 IEC 61000-4-4