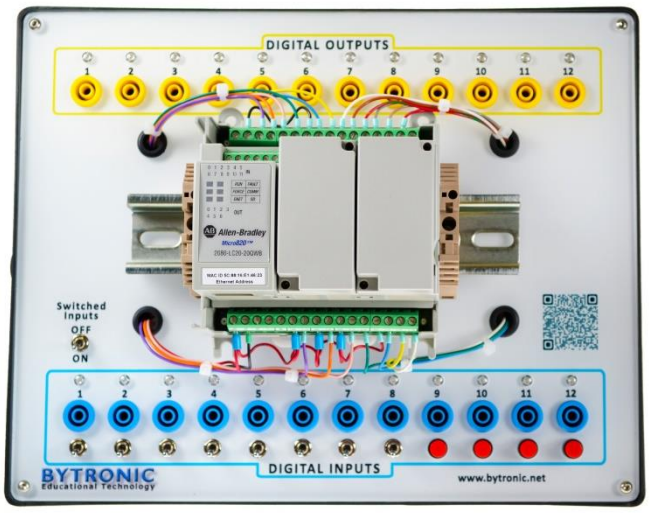
Allen Bradley Micro820 PLC Trainer PLCA1



Key Features:

- All connections easily accessible through 4mm colour coded terminals and D connectors
- PLC prewired, alleviates the issue of damage to PLC with rewiring for each use.
- Built in switches allows pre-testing of program.
- Easily stored and setup

The Bytronic PLCA1 is a PLC trainer with the Micro800 series PLC fitted to a plastic box and a front panel with clear indications of the connections to the PLC. Using the prewired connections to the 4MM terminals or D connectors, the risk of damage to the PLC is minimised, as there Is no requirement to wire to the PLC directly. Diodes are fitted internally to protect from incorrect connections and a fuse fitted to protect the PLC.

The Micro820 series of PLC's are designed to meet a variety of applications, with embedded Ethernet and Serial ports. The Micro820 supports an embedded microSD slot that can be used for storing large amounts of data that normally cannot fit into memory for applications that require datalog and recipe. All files are stored in CSV text format for easy viewing and editing. The microSD card is also used for backing up and restoring the program, which can be used for duplicating the program in several machines.

Also, available as an optional extra, is the Allen-Bradley Micro800 Remote LCD Display. This connects to the controller's embedded RS232 port and works as accessory for the Micro820 controller. With 4 or 8 lines of ASCII text and a tactile keypad, it can be used as a simple HMI. Its system menu is available in multiple languages for direct viewing and editing of controller variables. Controller's Ethernet address can also be easily set from the menu. Supports front panel mounting as well as DIN rail mounting next to the controller.

Micro820 Features

- EtherNet/IP™ for Connected Components Workbench™ programming, and HMI connectivity
- Built-in Real Time Clock (RTC) with no battery required
- microSD™ slot for program transfer, datalog and recipe
- Selected models available with removable terminal blocks for easier wiring and installation
- 5 KHz PWM Output for controlling solenoids and valves

The trainer gives access to the PLC's I/O capabilities providing an effective means for the student to test and debug the program prior to connecting to the application.

LEDs clearly indicate the Input and Output operations. Simulation of inputs is possible using the built-in switches.

All inputs and outputs are available through the colour coded safety sockets (4 mm) and 'D' type connectors.

Specification	
Digital I/O	12/7 (4 Inputs shared with Analog Inputs)
Analog I/O Channels	4/1
Digital Inputs	12 x 24v dc
Digital Outputs	7 x Relay Outputs
Program Steps	10K steps
microSD Card Slot	1, type FAT32/16, Maximum size – 32GB, Class 6 and 10SDSC and SDHC
Base Programming Port	Embedded Ethernet Port
Base Serial Port	RS232/485 non-isolated, CIP Serial, Modbus RTU, ASCII
Software Required	Connected Components Workbench
IEC 61131-3 Languages	Ladder Diagram, Function Block, Structured Text
User Defined Function Blocks	Yes
Floating Point Math	32-bit and 64-bit
PID Loop Control	Yes
Trainer Construction	Acrylic Facia fitted in a durable plastic box
Connectors	1 x 15 pin 'D' socket for outputs 1 x 15 pin 'D' plug for inputs 12 x 4mm terminals Inputs 12 x 4mm terminal outputs
Input Switches	12 switched inputs: 8 x toggle 4 x momentary push
Indicators	12 Input LEDs 12 Output LEDs
Power Supply	24V DC fused

Additional Items Required to use PLC	
Required Programming Software	Connected Components Workbench Ethernet Cable Suitable PC

Ordering Information	
Model Number:	**PLCA1**
Consists of:	1 x Allen Bradley Micro820 PLC fitted to an ABS enclosure

Weights and Dimensions

Un-Packed		**Packed**	
Dimensions (mm)	290L x 230W x 180H	Dimensions (mm)	500L x 400W x 300H
Approximate Weights	1.5Kg	Approximate Weights	3Kg

Notes.

1. Specification is subject to change without notice.

2. All dimensions are in mm unless otherwise stated

Bytronic Limited
124 Anglesey Court, Towers Business Park,
Rugeley, Staffordshire, WS15 1UL.
United Kingdom
Tel; +44 (0)3456 123 155
Email: sales@bytronic.net Website: www.bytronic.net