

PLC Identification & Retrofit Options

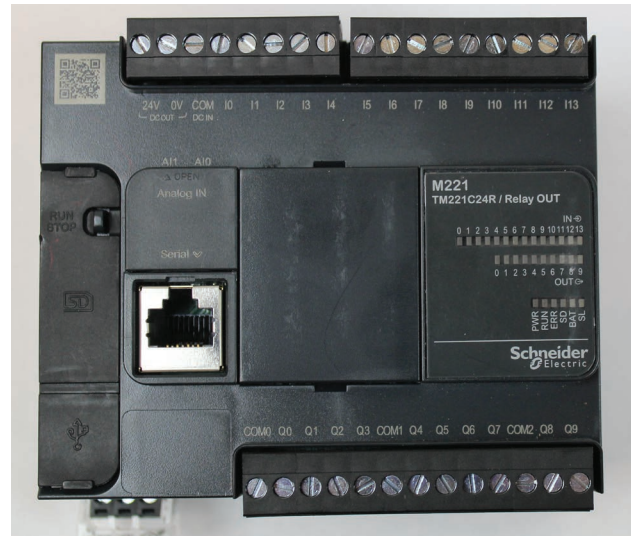
Systems, LLC has been using Programmable Logic Controllers (PLCs) to control certain types of dock equipment since 1986. A handful of different PLC types have been used since 1986, some of which are no longer supported. This TSB details the most common PLCs used by Systems, LLC prior to the introduction of iDock Controls, the level of support available, and the information needed to provide a retrofit (if possible).

Schneider M221 (7141-0350)

Status: Supported
In Production: 11/2016-present
Replacement Available: Yes

The Schneider M221, phased in in late 2016, is the final iteration of PLC used before the introduction of iDock Controls. These PLCs are still available to purchase and are used to retrofit older PLCs where replacement is required.

For units already equipped with a M221 PLC, programmed replacements can be provided with a customer order number (CO#), shop order number (SO#), program number or equipment serial number. This information can typically be found on a label inside the control box door.



Telemecanique/Schneider Twido (7141-0158)

Status: Limited Support
In Production: 05/2002-11/2016
Replacement Available: No
Retrofit Available: Yes

The Telemecanique/Schneider Twido, used from mid 2002 to late 2016, is considered obsolete and is no longer available to purchase, but tech support is still offered for these units and program reflashing via EEPROM chip is available on a case-by-case basis.

Units equipped with a Twido can be easily retrofitted to the M221 PLC. To provide a retrofit, Systems, LLC requires a customer order number (CO#), shop order number (SO#), program number or equipment serial number. This information can typically be found on a label inside the control box door.



PLC Identification & Retrofit Options (continued)

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Allen-Bradley MicroLogix 1200 (7141-0133)

Status: Limited Support
In Production: Special Usage
Replacement Available: Yes

The Allen-Bradley MicroLogix 1200 is used exclusively by customer request to provide end users with program access. Systems, LLC provides support for these units where possible (non-factory programs are unsupported).

For units already equipped with a MicroLogix 1200 PLC, programmed replacements can be provided with a customer order number (CO#), shop order number (SO#), program number or equipment serial number. This information can typically be found on a label inside the control box door.



Telemecanique TSX-17 (7141-0154)

Status: Limited Support
In Production: 10/1994-05/2002
Replacement Available: No
Retrofit Available: Equipment Dependent

The Telemecanique TSX-17, used from late 1994 to mid 2002, is considered obsolete and is no longer available to purchase, but some tech support is still offered for these units.

Most units equipped with a TSX-17 can be retrofitted to the M221 PLC. To provide a retrofit, Systems, LLC requires a "job" or "lot" number with a program number and equipment serial number. The "job" or "lot" number may be found outside or inside the control box. The program number is typically labeled on the face of the TSX-17 EEPROM, visible by removing the EEPROM from its socket with the power turned off.



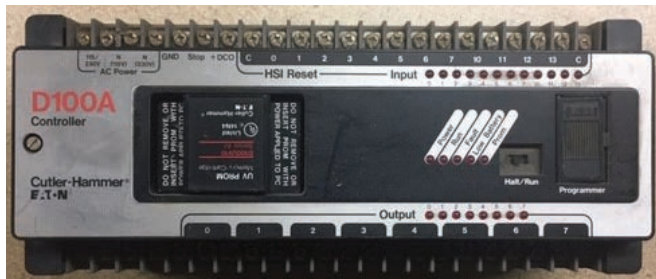
PLC Identification & Retrofit Options (continued)

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Unsupported PLCs

All PLCs used by Systems, LLC prior to 10/1994 and all PLCs used by McGuire prior to 2006 are no longer supported and do not have retrofits available. Systems, LLC no longer has the equipment or software required to provide service on these older PLCs and new equipment must be purchased if they no longer function.

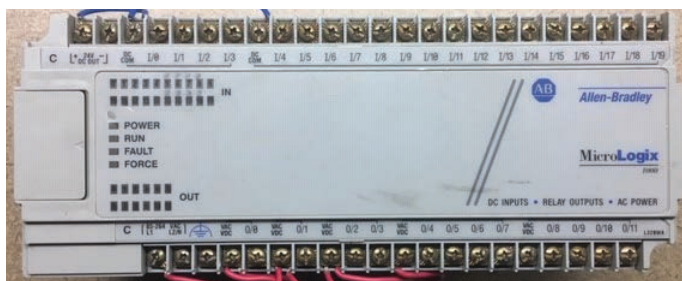
These include, but are not limited to, the below PLCs manufactured by Cutler-Hammer, IDEC, Allen-Bradley and General Electric. Any PLCs not listed on page 1-2 of this document are typically unsupported; contact Technical Services for assistance with a PLC if support status is unknown.



Unsupported Cutler-Hammer D100A



Unsupported IDEC FC20A



Unsupported Allen-Bradley MicroLogix 1000



Unsupported GE IC609