

# Connections

## What is ARGEE?

Imagine an Ethernet I/O Block that can be turned into a compact PLC. Turck's ARGEE adds simple PLC functionality to a multiprotocol block I/O module in both an IP20 or IP67 package. Simple controller functions can be

accomplished directly on the block without the need for a dedicated PLC. It can also help a PLC that is already installed in the system by outsourcing functions directly on the I/O module. This can relieve the workload of the main PLC.

ARGEE is a simple WEB application that only requires a Windows PC running a browser. There is no other software needed to program the device. It has a basic mode that works with drop down selection boxes which ultimately form a flow chart type of program structure. This makes it easy to correlate to ladder type programming of a PLC. It also has a "PRO" mode which allows much more keyword driven events to occur. The use of a block containing ARGEE may be able to drive an entire project without the use of a PLC!

ARGEE can also accommodate I/O Link as well as the usual industrial protocols. It can be used to combine

both I/O Link sensors with standard analog or digital sensors. It lives in peaceful co-existence with other software also used with I/O Link. The blocks as you may know can be used to configure the I/O Link Sensors, but after their configuration, there is no need to remove the device and place it in system. Simply run the Web-Page from a connected PC and start programming to your heart's content.

As you may know, some sensors have multiple configuration parameters that can be accessed through I/O Link. This can make a standard sensor into something much more. An example is using a sensor which would typically be used as an analog output and setting a static trigger point to simply output a single digital



signal when the point is reached. It can also do the same with an output.

ARGEE allows a simple

**“You might not think that programmers are artists, but programming is an extremely creative profession. It’s logic-based creativity.”**

- John Romero

As New England Drives & Controls constantly strives to become a better asset to our customers, our whitepaper series will feature new technologies or helpful insights that may be pertinent to the reader. It is our sincere hope that this information will be beneficial in both relating, and applying content to your industrial needs.

We hope you find this whitepaper series an enjoyable and informative read.

We always welcome your questions and comments.

**New England Drives  
& Controls, Inc.**

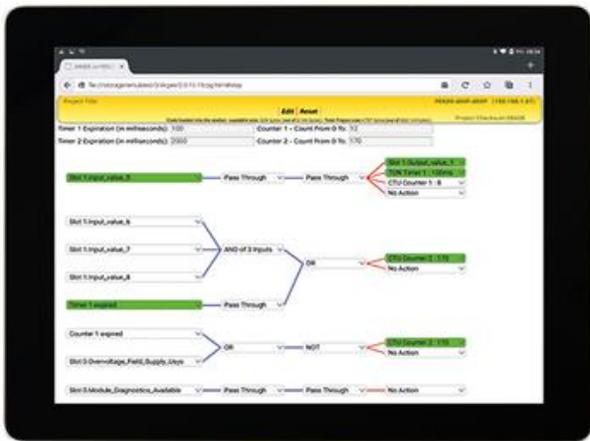


block to perhaps ultimately control all of the logic within a project.

Although this may seem overwhelming at first, once understood you will be able to wield a tremendous amount of power into your project. Remember that is only the beginning.

Turck has blocks that can be wired via screw terminals as well as fully IP67 wash-down rated blocks that connect to the full line of connectivity cables that Turck also offers. The choice is yours and limited only by the needs of your project.

ARGE is freely downloadable and even has a sample mode which allows you to create and simulate a program as if it were on the I/O block without the need for one to be physically present. That makes for a great test drive! Feel free to try it out yourself. If you run into a question, feel free to give us a call.



Your friendly New England Drives Representative can discuss further possibilities using these Turck Blocks and ARGE, as well as put you in touch with the proper engineering resources to work through the needs for your project.

The ARGE programming drop down selection boxes can be seen on the screenshot to the left.

The complete program can be written this way. The proper keywords, variables, and I/O are all presented and anything not applicable is not shown. This makes programming easy. If you are used to PLCs and their programming, this will seem quite simple. If you have never programmed a PLC, this will make that process much less daunting, and ensure success.

Remember that your friends at New England Drives will be here to help you along.

-Peter Lavoie - VP Engineering



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