

Turck's New ARGEE Technology Turns I/O Devices into Field Logic Controllers (FLCs) for Flexible, Cost-effective Control

Minneapolis MN, May 24, 2016 –Engineers, OEMs and integrators have struggled for years with how to balance the cost of PLCs with their I/O needs, and Turck's new ARGEE technology solves this challenge. ARGEE empowers manufacturers to add logic to compatible I/O devices without a PLC, driving down the cost per I/O point and increasing flexibility in control.

The ARGEE environment is accessible via an HTML5-compatible web browser, which eliminates the need for complex third-party software or licensing common with PLCs. Inside the ARGEE environment, the user can set condition and action statements that can be carried out by the I/O device. The application's intuitive design includes a flow chart, similar to ladder logic, which allows for easy programming by users of all experience levels.

By taking advantage of ARGEE on Turck's multiprotocol Ethernet I/O devices, manufacturers are able to realize a better control solution – field logic controllers (FLCs).

FLCs benefit small- to mid-size OEMs and manufacturers who are looking to add logic without investing in a PLC. FLC can be used in one of three ways:

- The FLC stands alone: FLC performs all the logic as a standalone application without a PLC.
- The FLC backs up the PLC: If the FLC loses communication with the PLC, the FLC can take over and either shut down the process, or keep the process going.
- The FLC and the PLC work together: The FLC can monitor an application and send defined variables and updates back to the PLC.

"With FLC powered by ARGEE, engineers can add control capabilities and I/O points to applications without having to invest in or upgrade a PLC," said Randy Durick, Vice President of Fieldbus Technology at Turck. "Because the I/O devices carry advanced ingress ratings, logic can move outside the panel and onto machines for local control and real-time performance monitoring."

Specific features of ARGEE include:

- Toggling bits, utilization of timers and counters, performing arithmetic functions, monitoring of program status via the built-in HMI capabilities and communicating with an upper level PLC
- HTML5-based programming, which makes the environment accessible on any device via capable web browsers such as Chrome and Firefox
- Integration with digital, analog, IO-Link, RFID, and specialty I/O types

ARGEE technology is standard in all Turck multiprotocol Ethernet I/O devices. These devices can be used on any PROFINET®, Modbus TCP™ or EtherNet/IP™ platform, and include TBEN-L/TBEN-S on-machine block I/O; BL compact on-machine flexible block I/O; and FEN20 In-cabinet block I/O.



Leading-edge technology creates device-level control to replace PLCs in simple logic applications

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