

## FLC-capable I/O Modules

Turck's FLC technology brings logic to the field level. The web-based programming environment ARGEE expands Turck's block I/O modules with multiprotocol Ethernet platform with logic functionalities. Thus, an I/O module installed in the field becomes

a field logic controller (FLC). The programming and configuration is possible without any software installation thanks to the web-based programming environment – even with mobile devices.

### TBEN

- Fully potted housings comply with highest degrees of protection up to IP69K
- Temperature range -40...+70 °C
- TBEN-L with up to 16 digital channels
- TBEN-S with up to 8 digital or 4 analog channels
- Special modules for RFID and IO-link



### BL compact

- Fully potted housings comply with highest degrees of protection up to IP69K
- Temperature range -40...+70 °C
- Available with up to 16 channels in M8 or M12 connectivity
- Enormous variety of signals through a flexible combination of I/O modules
- Digital and analog signals as well as IO-link and RFID



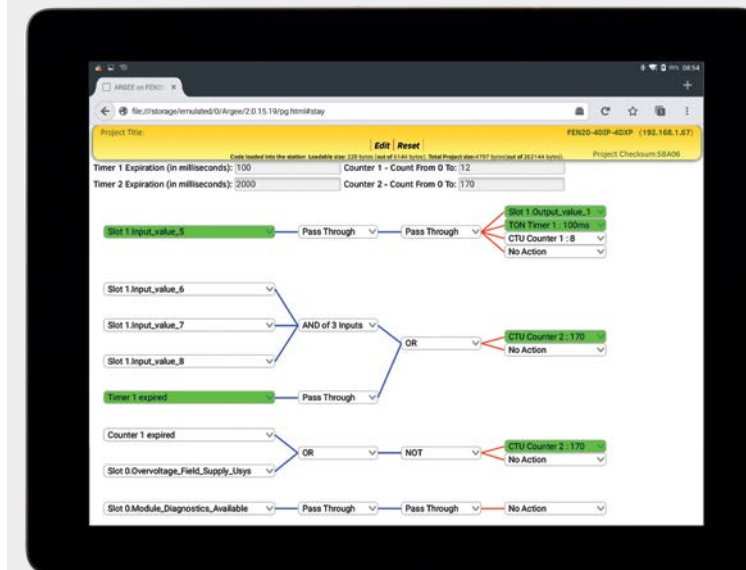
### FEN20

- Compact I/O modules in IP20 for installation in the control cabinet
- Temperature range -40...+70 °C
- Up to 16 universal digital inputs or outputs
- High degree of flexibility, because the universal channels can be used either as input or output



Your Global Automation Partner

# ARGEE Field Logic Controller (FLC)



28 subsidiaries and over 60 representations worldwide!



# ARGEE – Field Logic Controller (FLC)

The easiest way to decentralized intelligence



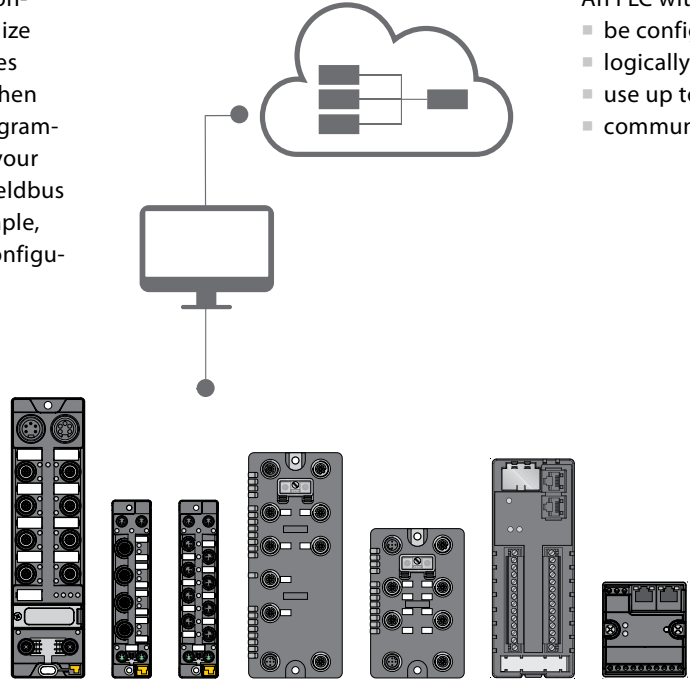
**Turck I/O modules become logic controllers**

With the new field logic controllers (FLC) Turck offers another highly flexible, user-friendly automation solution. This is made possible by the browser-based programming environment ARGEE. It is based on HTML5 and JavaScript and allows the user to program conditions and actions in a very simple way, even in the field with mobile devices. By using ARGEE Turck's multiprotocol block

I/Os can be used as independent logic controllers. ARGEE will not replace any PLC completely, but the engineering software enables new ways of control technology. Turck FLC devices can independently control applications, perform arithmetic, timer, counter and binary switch functions and exchange data with higher-level controllers.

**Easy to configure**

ARGEE FLOW is a configuration environment, in which you can set and visualize control functions via drop-down boxes using ladder diagram with simple if-then commands. Even with little or no programming experience, you can configure your FLC to perform tasks, that so far no fieldbus device was capable of doing. This simple, goal-oriented approach allows the configuration directly on the field level.



**ARGEE FLOW**

- An FLC with ARGEE FLOW can
- be configured with boolean logic
- logically link input and output signals
- use up to two timers and counters
- communicate with a PLC

**Easy to program**

ARGEE PRO is an extended editor that offers more control and programming options than the drop-down based ladder diagram. Despite the extensive functionalities ARGEE PRO is easy to program. The user is supported by the clear display of the current signal and program states.



**ARGEE PRO**

- An FLC with ARGEE PRO can
- perform arithmetic operations
- use numerous internal variables, timers and counters up to 6 kB total size
- exchange comprehensive data with a PLC
- perform if-conditions and state sequences

**Industry 4.0 ready**  
With the extra control intelligence thanks to ARGEE, Turck's block I/O modules are ideally suited for the requirements of industrial 4.0 scenarios, since they also support the necessary basic technologies such as Ethernet, IO-Link and RFID.

**Flexible use through HTML5**  
ARGEE is based on the latest web standard HTML5. All functions can therefore be used with any device that is running an HTML5 capable web browser such as Chrome or Firefox, whether using a PC or tablet. Special software is not required.

**Easy PLC connection**  
In addition to the decentralized logic processing, ARGEE can exchange and process data with higher-level control systems via PROFINET, EtherNet/IP™ as well as Modbus TCP. Thus, an FLC can also be used for decentralized signal preprocessing.

**Added value at zero cost**  
Turck provides the ARGEE programming environment for free for the block I/O modules TBEN-L, TBEN-S, BL compact and FEN20. This is our way of saying thank you for your confidence in our sustainable I/O solutions.