I/O applications
Flow computers & remote controllers
Overview

Input Output (IO) Application provides an environment to automatically recognize and configure TFIO modules (as well as support on-board I/O) to the XSeries/XCORE products.

Features

- Automatically recognize and configure TFIO modules on I²C bus.
- Support on-board I/O.
- Efficient IO protocol between the modules and the main electronics board.
- Control module LEDs to save power and provide diagnostics.
- Support up to 8 instances of each module type.
- Automatically scales channels into desired units based on user entered calibration data.
- Currently supported modules include:
  - Analog Input, 8 channel
  - Analog Output, 4 channel
  - Digital I/O, Pulse, 8 channel
  - Valve Control, 2 DO, 4 DI/DO/DO, 1 AO
  - Communication, RS232/RS485
  - Millivolt Input, TC, 4 channel
  - Millivolt Input, RTD, 4 channel

Benefits

- Hardware functionality of XSeries/XCORE devices can be extended in a flexible and simple way by adding modular IO as needed.
- Totalflow’s TFIO modules are designed to accommodate low power, harsh environments at economical cost.