

Development of an Adaptable Sample Introduction and Delivery System for Mass Spectrometry Automation

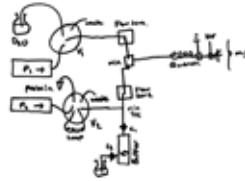
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Summary

This poster describes the development process for modular sample introduction systems based on the integration of IDEX fluid handling components. IDEX Health & Science provides optimized, custom-designed fluid handling solutions for OEM integration utilizing a combination of IDEX Health & Science components. The entire system can be controlled from a single communication bus and protocol for ease-of-use.

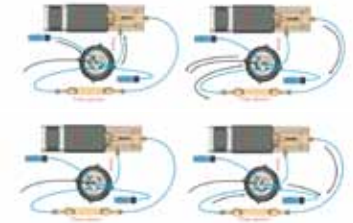
Definition of application problem

- ▶ Customer defines application problem
- ▶ IDEX Health & Science refines customer requirements
- ▶ Collaborative discussions optimize scope of project



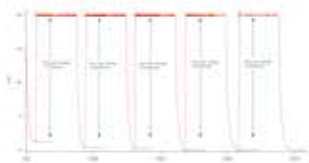
Proposed IDEX Health & Science integrated solution

- ▶ IDEX Health & Science creates hardware proposal
- ▶ Component flexibility allows optimal integration
- ▶ Interchangeability of components makes easily adaptable solutions
- ▶ IDEX Health & Science works closely with customer to ensure specifications are satisfied



Testing and validation

- ▶ Prototypes are tested, analyzed and optimized by IDEX Health & Science, R&D developers



Customer integration

- ▶ IDEX Health & Science engineering works with customer to create manufactured integrated solution



Integration of components



Creation of functional prototypes

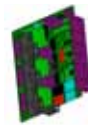


Development of control methods

- ▶ Hardware is automated using IDEX Health & Science controllers
- ▶ Evaluation software is available



Software



Controller