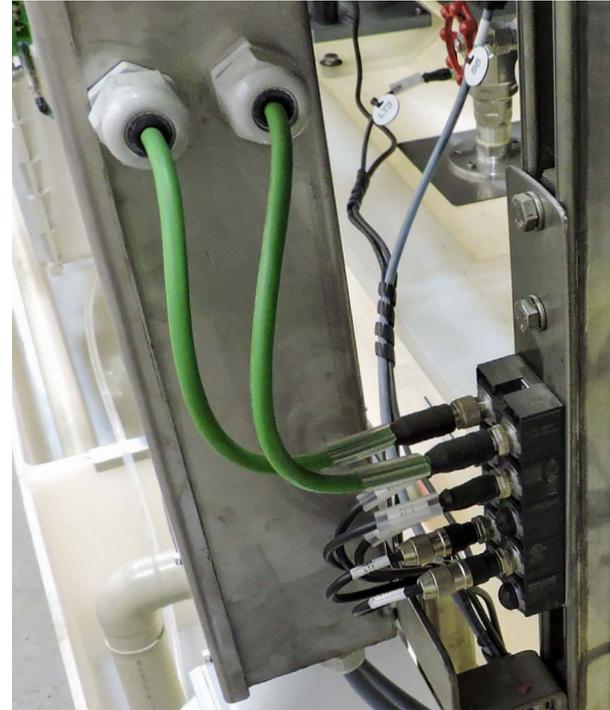


Murrelektronik IO-Link Solutions

Proceco Integrated Cleaning Systems Gains Powerful Results with Cube67 and IO-Link

Location: Montréal, Québec, Canada

Industry: Machine builder specializing in aqueous cleaning systems



We chose to work with Murrelektronik because they were able to supply the best I/O system for the type of machine we were building. Their Cube67 system with IO-Link made it much easier for us to integrate different types of I/O devices while reducing the amount of wiring we needed to do.



CHALLENGE

Proceco was commissioned to build an automated 13 station washing system for the aerospace industry running an Allen Bradley PLC with EtherNet/IP.

- Combination of digital and analog I/O signals with some stations required to go offline while the machine process continued.
- IP address limitations due to PLC CPU



SOLUTION

Proceco's original I/O system concept was to use junction boxes. This would have required running power and communication cables to every station. We proposed a [Cube67 fieldbus system](#) because the one-cable technology packs data and signal into one main cable. Then we suggested one [IO-Link extension module](#) per station for the 12 DIO and 4 IO-Link connections.

- Analog and RTD sensor were replaced with IO-Link versions
- [IO-Link to Analog Converter](#) used to convert an IO-Link signal to a 4-20mA output for the valve
- Extra digital signals were handled with an [IO-Link Hub](#)

30% LESS INSTALLATION TIME

25% MATERIAL COST REDUCTION



RESULTS

- Substantial savings in hardware costs and installation time due to eliminating analog PLC cards and the ability to use a single system cable from station to station.
- Increased productivity due to Machine Option Management function allowing the rest of the stations to continue running when a station needed to go offline for a tank refill.
- Major reduction in wiring due to the IO-Link Module providing the capability of connecting three types of devices to one module.

THE POWER OF MURRELEKTRONIK'S IO-LINK SOLUTIONS

- The wide range of field bus modules: with [MVK Metal](#), [MVK Fusion](#), [Impact67](#), [Solid67](#), and [Cube67](#) make IO-Link devices easy to implement in any application.
- IODD on Board saves GSDML files for the IO-Link Devices so that customers don't need to use additional software from different manufacturers.
- Expansion modules like [IO-Link hubs](#) make it easy to increase the amount of digital IO-Ports. The [IO-Link to Analog Converter](#) and [IO-Link inductive coupler](#) enable customer's to create the right solution for their installation concepts. Even our IP67 power supply [Emparro67 Hybrid](#) can be controlled with IO-Link.

OVERALL IMPACT

- Although Proceco had used our Impact67 modules before, this was their first Cube67 project. Murrelektronik Canada provided constant support throughout the project and there were no major problems.
- Murrelektronik proved to be a perfect partner for creating an IO-Link solution.



Our customer is more than happy with the machine and all those excellent Cube67 modules!

