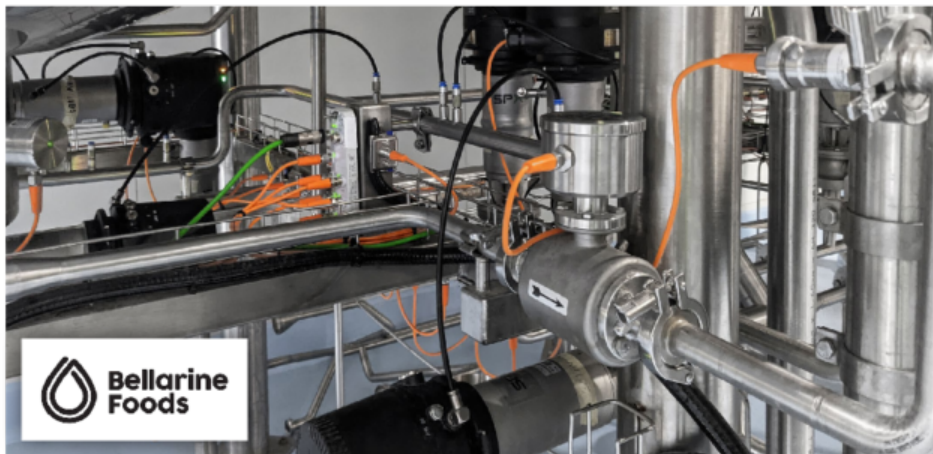


**Case Study: Complete Plant with IO-Link**
**FOOD**


## Flagship project with resounding success: Bellarine Foods, a milk powder plant of the future

Bellarine Foods in Victoria, Australia, has broken new ground with a completely new plant for whey powder production. The entire project was planned, designed, and installed with the digital communication system IO-Link. From the construction phase to production operation, it is evident that Bellarine Foods has become a pioneer for a technology that represents the standard of the future for food and beverage companies. The benefits of this project are so obvious that one thing is clear to project partner Lindon Giuffrida of GP Systems: „The future of hygienic process technology is digital.“

**The Application**

Since the end of 2021, the new plant refines per day approx. 60,000 liters of whey, deriving from the production of a goat cheese factory, into whey powder. In partnership, HPS Tech & GP Systems supplied the various required skids, each designed as individual prefabricated modules, which only had to be connected at the plant. Following skids were installed:

- Ultrafiltration membrane system
- Nanofiltration membrane system
- CIP System
- Tank bay storage system
- Evaporator
- Spray Dryer

It was a prerequisite that all components communicate via IO-Link. Thanks to the extensive range of sensors with IO-Link, Anderson-Negele was able to significantly contribute to the success of this trend-setting project.

**Advantages in the application**


- » Savings in cabling costs of around 50 %
- » Savings in planning, set-up, and commissioning time of around 50 %
- » Significantly easier programming of sensors, valves, and other devices
- » Ability to check sensor status and change settings via the Internet
- » Replacement of sensors made easy by plug-and-play with automatic transfer of programming