

# Prati-Donaduzzi uses Emerson SCADA system to ensure efficient production compliant with FDA regulations

## RESULTS

- Continuous real-time control of the whole plant
- FDA CFR21 Part 11 compliance
- Fast project completion minimized impact on productivity

## APPLICATION

Supervision of pharmaceutical plant production systems and subsystems.

## CUSTOMER

Prati-Donaduzzi – Toledo, Brazil.

Prati-Donaduzzi is the largest manufacturer of generic drugs in Brazil, with an annual production capacity of 12 billion therapeutic doses.

## CHALLENGE

Management of the Prati-Donaduzzi plant infrastructure is essential to ensure production processes are efficient and quality complies with FDA regulations. If not managed and operated correctly, each process or part of the facility's infrastructure can negatively impact production. Ambient temperatures in many areas of the plant must be rigorously controlled to prevent adverse effects on production. Compressed air must be void of dust particles, oil and moisture. Water purification management is extremely important because water is the basis of all liquid medicine, while hot water systems that maintain optimal temperature for each production process directly impact quality and precision of final product. An environment monitoring system must be used to monitor the entire production environment, including alarm management, documentation, safe recording and measuring of collected data from each process. This recorded information creates valid electronic documentation that can be used to certify the whole production process.



*“We are very satisfied with the project. The Movicon SCADA technology has proven to be stable, with optimal performance and very easy to maintain.”*

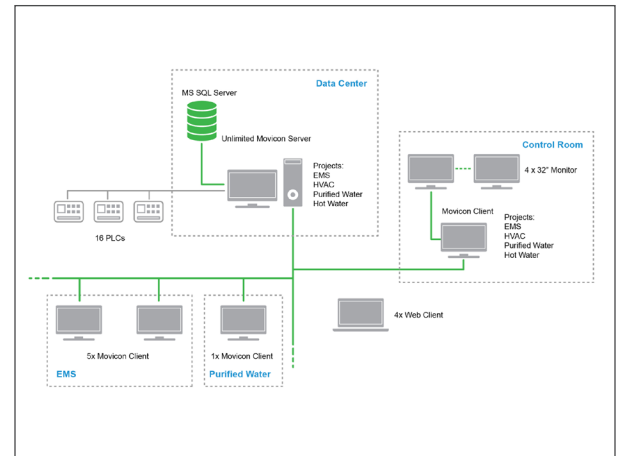
**Edison Brustolin and Michel Adur**  
Prati-Donaduzzi project managers

## SOLUTION

Prati-Donaduzzi invests in systems and procedures that ensure productivity, quality and safety are maintained. As part of that investment the company has integrated various plant production systems and subsystems into a single SCADA system capable of managing the heating, ventilation and air conditioning system, environmental monitoring system, purified water, compressed air and hot water systems. Emerson's Movicon SCADA system was selected and it provides operators with continuous real-time control of the whole plant, with all potentially dangerous events displayed immediately on user screens and automated notifications sent when required.

The Movicon system supervises all the control systems distributed throughout the plant, using OPC technology to connect to 16 PLCs managing over 6,500 variables via a local network. The Movicon SCADA server is run unmanned on the server workstation in the plant's data center. Operator control panels are located in the control room, together with the Movicon Client workstation and four large monitors that give operators full visibility of the plant. Six additional Movicon Client workstations are connected to the main control system and used with the sub-control systems to enable field operativity. Movicon Web Client technology enables operators, maintenance workers and production managers to connect remotely with any browser or mobile device. More than 200 users are authorized to interact with the systems, depending on their level of competence.

Features provided by the Movicon platform ensured the project was designed to comply with the FDA regulations according to the CFR21 Part 11 norm. In order to cause minimal disruption to production the project also needed to be completed quickly. The simplicity of the Movicon technology enabled design, testing and validation to be performed in just two months.



## RESOURCES

### Emerson Industrial Automation and Controls

[www.emerson.com/PACSystems](http://www.emerson.com/PACSystems)

### Movicon

[www.progea.com](http://www.progea.com)

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