

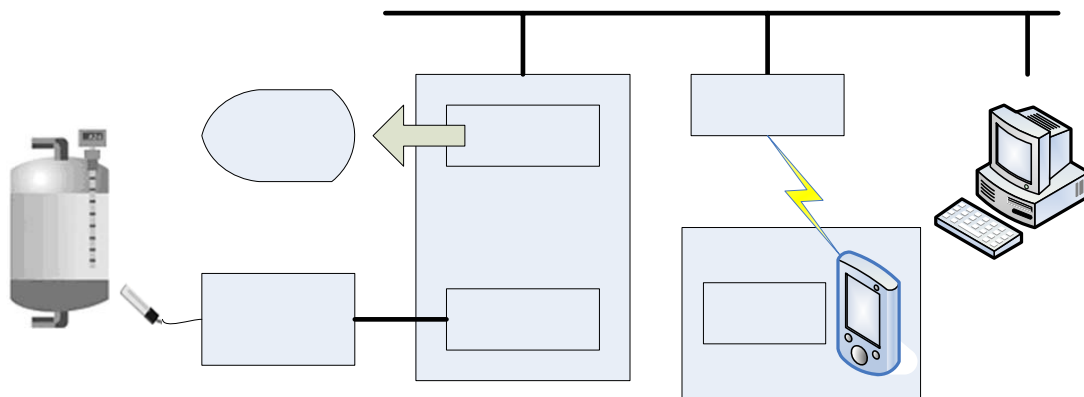


WinCON + InduSoft + PDA Portable Automated pH Detection System for Semiconductor Manufacturer

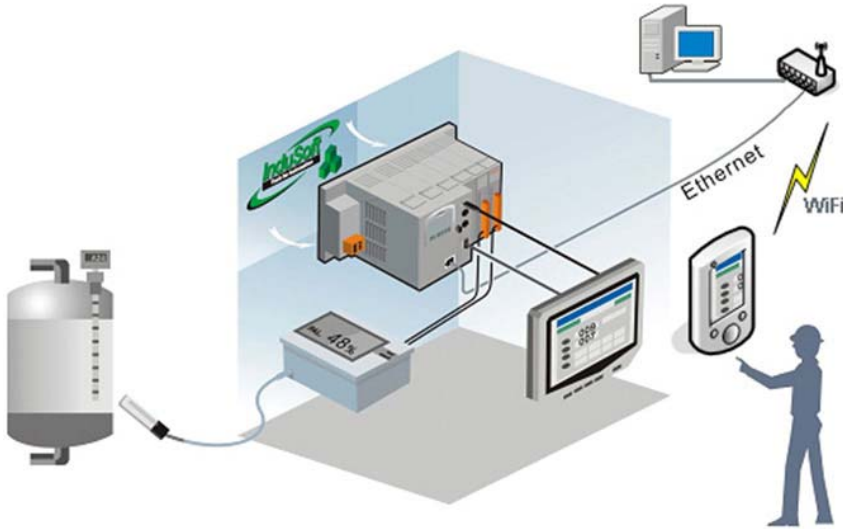
Recently, ICP DAS had the opportunity to assist a large scale semiconductor manufacturer with implementing a new embedded control and data acquisition solution. The stipulations for the application were quite arduous, as the production of semiconductors is a very sensitive process in which many volatile chemical are used in conjunction with one another to produce the ideal conductive/insulated medium for use on micro-processors. The design required the use of a robust control and data acquisition system to monitor the pH of each individual chemical, since they all require specific care when they are being employed in the manufacturing process.

System Structure

Working in conjunction with a systems integrator and the customer, ICP surmised that ideally, the automated liquid detection equipment needed to be easily integratable/serviceable, and extremely precise. By using the ICPDAS WinCon-8339 programmable automation controller, in conjunction with the vast array of cartridge based I/O, ICP created a holistic solution, allowing the pH and ppM of the volatile chemicals to be monitored and modified via an Indusoft HMI. The system also provides remote access via PC or PDA, allowing users to monitor and modify the application process from an easy to use, web based interface.

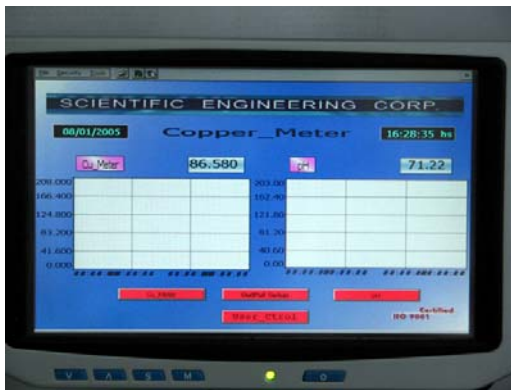


System Structure



By implementing ICP DAS's advanced PAC industrial control platform, in conjunction with InduSoft's powerful integrated SCADA software, a fully integrated industrial control solution is surmised; allowing rapid product development, and precise manufacturing.

Integrated Equipment



InduSoft Interface



PDA Browser Screen



Completed Product

Conclusion

ICP DAS's WinCON programmable automation controller offers a highly precise platform, capable of supporting robust I/O solutions, as well as carrying out advanced programmable logic. When paired with capable HMI software (i.e. Indusoft), the WinCON offers a streamlined solution for embedded control, data acquisition and user-friendly windows based HMI. With multiple connectivity options (USB, Ethernet, Serial, RS-485) the WinCON allows users the ultimate in connectivity and ease of use regardless to whether you are working locally or remotely. With the implementation of web-ready capabilities, the WinCON PAC provides the ultimate in data monitoring, and alarm function, allowing users to receive regular data updates and important messages via almost any telecommunications device!...Just another fine example of the amazing capabilities of the new ICP DAS WinCON Programmable Automation Controller.