

Danntech Process Instrumentation

Danntech

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[Customised Systems](#)

These systems have been produced for customers over a period of time and are available in the similar or modified form. They also serve as application examples of our products. If you have a requirement for such systems please contact us.

Automated Dilution of Hydrochloric Acid

This system was developed to demonstrate the feasibility of using a density measuring instrument and a peristaltic pump to control the concentration of HCl in an automated dilution application. [\[Product Details...\]](#)

Bacterial Growth Control System

The REDOSTAT leaching control system maintains the redox potential (or the concentrations of ferric and ferrous ions) by using current to oxidize or reduce them. [\[Product Details...\]](#)

Cheese Factory Cleaning Cycle and Pasteurizer Monitoring

In this application a monitoring system was implemented for a cheese factory in which the requirement was to be able to log the pasteurizing and CIP temperatures, flows and times for each of various parts of the plant. [\[Product Details...\]](#)

2 MW DC Furnace Monitoring System

This furnace monitoring system uses standard Danntech Products on an RS485 network with a display and logging application running on a PC. The eight analogue inputs, provided by an MCI are used to measure the AC input current, voltage, active and reactive power and the electrode DC voltage and current. [\[Product Details...\]](#)

Crystallization Pilot Plant Control

Ideally suited to experimental and pilot plant type operation, the Measurement and Control Interface (MCI) is used here to monitor and control a small chemical plant. A low cost PC which was fitted into a protective steel enclosure with an uninterruptible power supply is used to run the software. [\[Product Details...\]](#)

Distributed Ammonia Gas Monitoring System

This system is a distributed monitoring system for 17 ammonia gas sensors in a refrigeration plant. There are five zones with four of them having three 4-20 mA gas sensor inputs and one other with five 4-20 mA inputs. [\[Product Details...\]](#)

Leach Plant Control System

This system has three in-line leach tanks each with vibrating feeder controls, temperature control, pH monitoring and stirrer speed monitoring. Feed and collection tanks are also used and must be temperature and level controlled. [\[Product Details...\]](#)

This was designed to assist in electrochemical research using constant current control through a cell arrangement with two solutions separated by a membrane. [\[Product Details...\]](#)

Irrigation Multi-Acid pH Control System

This system, designed for remote operation, controls the irrigation water pH using hydrochloric, sulphuric and phosphoric acids in a demand driven, premixing system. The ratios of the acids are chosen to suit the soil being irrigated. [\[Product Details...\]](#)

Fabric Dying Control System

The revised control system has been designed to replace the original dedicated controller which was no longer useable or serviceable. A priority was to keep the costs as low as possible and it was decided to implement the controller using various interface components, a standard PC with a specialized counter interface card and software written to replicate the original machine functions. [\[Product Details...\]](#)

Motor Current Monitoring System

This monitoring system has been designed to try and predict the failure of any particular motor of a bank of 300 motors in a steel plant. [\[Product Details...\]](#)

Galvanostatic/Potentiostatic Measurement Control System

Mini-Cell Test System

Designed to provide data logging and remote access for a small electroplating type cell used for research.

[\[Product Details...\]](#)

Electroplating Control System

In this application a Measurement and Control Interface (MCI) is used with two Relay Multiplexers and a Four Relay Output Module to monitor and control four electrochemical cells. The temperature, electrolyte feed flow, cell current and cell outflow conductivity are controlled in each cell. [\[Product Details...\]](#)