

Using the Model 1100 with ETILink™ DDE Server for Process Control of Water Treatment Chemicals

Eason Products Used:

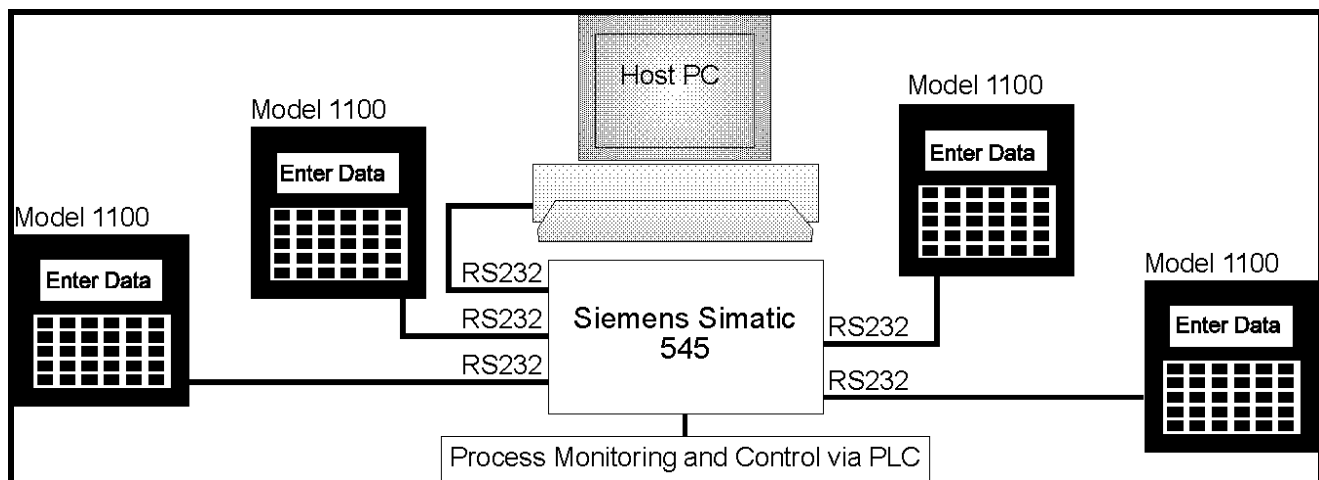
- 1100-M03-TI5
- ETILink™ DDE Server

Complimentary Products:

- Standard PC
- Siemens Simatic 545

Machine Objectives & Motion Requirements:

- Monitor the mixing process.
- Select, change, and add to the recipes.
- Prompt the operator
- Data acquisition and recipe management



Eason Solution:

Each group of mixing tanks has an Eason 1100 and all are connected to a central PLC. The PLC in turn controls valves and pumps, and monitors flow rates, etc. Wonderware's InTouch software is connected to the PLC and provides a dynamic overview of the mixing tanks and network of supply lines. The Model 1100 monitors the batch mixing progress in its associated tanks and sends feedback to the operator. The operator can create a custom mix batch via the 1100. This feature is password protected. When a new batch is started, the operator picks a specific product from a menu displayed on the 1100, then selects which tank it is to be mixed in. Then, the 1100 requests that the product recipe be run by the PLC. Batch information such as Operator ID and batch begin and end, are captured by the 1100, transferred to the PLC, and then logged in Wonderware. Each "recipe" formulation that the operator selects with the 1100 is downloaded to the PLC using Wonderware's Recipe Manager module. The 1100 also prompts the operator to add any ingredients manually that are not under automatic control.

Eason Benefits:

A particular benefit of the Eason 1100 in this application was its Nema-4 design and rugged construction. The units are constantly exposed to water and chemical spills. Also, operators typically wear gloves so the large full travel buttons on the keypad were an added benefit.

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