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Vision 4000

Recipe Management and Weighing System

The Vision 4000 is the ultimate control and management system for advanced raw material plants in the baking industry.

The system is based on an Allen Bradley PC/PLC network and allows you to choose the exact additional modules to the basic version necessary to meet your specific requirements; for instance management of several weigh units, inventory control, continuous data collection and full traceability of the recipe's raw materials.

The Vision 4000 is the general solution uniting all processes of a raw material handling plant, and ensuring automatic processing of the chosen recipes and collecting documentation on the products. The

Windows platform ensures a very high degree of user-friendliness and easy exchange of data.

By means of the Vision 4000 system, considerable gains are achieved within both administration and production. The Vision 4000 ensures high flexibility and thereby increased competitiveness.



System structure

The Vision 4000 concept consists of one or more PC terminals with Windows platform integrated with a strong Allen Bradley PLC via Ethernet. The Vision 4000 software connects a number of databases in the PC, and recipes are controlled by the PLC unit. If an office computer is connected to the network, data collection is done by direct transfer of production files to MS Office Excel spreadsheet. By means of the office PC, set up and change of recipes is easily done disregarding ongoing production.

Full traceability

Full traceability of all raw material supplies included in the final product, is a new facility, which will be available with the Vision 4000 from the beginning of year 2004, thus meeting the EU directives/regulations coming into force on the 1/1-2005.

Strong hardware

The hardware solution for the production area consists of an industrial PC with integrated touch screen built into a stainless cabinet to meet even the highest demands for easy cleaning, food-stuff hygiene, and technical stability. The system is equipped with built-in UPS unit ("Uninterruptible power supply") and an Internet modem allowing for on-line service.

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Complete recipe management and control

With the Vision 4000 it is possible to control any batch dosing process in every detail. The programme is prepared for silos, daily tanks and small ingredient plants combined with the connected weighing systems – as well as dosing units for liquids, including water mixers.

In the system set-up every single raw material has its own individual parameters adapted for the specific requirements regarding storage, conveying and dosing method, including for instance post-flow control. In connection with possible irregularities, error codes will automatically pop up to guide the operator.

In its standard version, the Vision 4000 is prepared for connection of 4 weigh units or other dosing units. Every recipe contains up to 20 components which are chosen from the component data base during recipe set-up, and connected to the actual weighing- or dosing unit.

More users

The Vision 4000 has different operation levels, and the access to these is regulated by individual user passwords. This applies to for instance access to raw material data bases, set-up or change of recipes, processing of recipes and inventory control.

The system is set up in a separate section containing for instance choice of language, calibration and other parameters. This section also contains log files for alarms and activities, which can be important during trouble shooting.



Technical data:

Industrial PC: Allen-Bradley 233 Mhz MMX Pentium 4 processor 128 Mb Ram, or better.

Integrated display: Colour Touchscreen TFT 15" 1024 x 768, 8 MB video memory.

Cabinet: Stainless steel.

Tightness classification: Screen: IP44, Cabinet: IP43.

Control system: Windows 2000.

PLC: Allen Bradley SLC5/05.

Network: Ethernet 10/100 base T/TX.

Elect. connection: Voltage supply 120/240 VAC.

External signals: 4-20 mA, Ethernet, RioNet, DeviceNet etc.

Meets the regulations/directives of European Standard, EN 60204-1.