



## MAPPING: THE BASIS FOR MEANINGFUL MEASURED VALUES

Rausch AG in Kreuzlingen, Switzerland, has researched and used herbs and their extracts to manufacture high quality, innovative and near-natural products for hair and body care since 1890. It plans to install a logger system from Rotronic to ensure that raw and end products are stored in the right place and under ideal environmental conditions.



*For every product the right storage place.*

The company decided to evaluate and replace the instruments for measurement of temperature and air humidity in its high-bay stores and production rooms more than a year ago. Due to references and the convincing concept proposed, Rausch AG opted for Rotronic as partner for this project.

To improve the quality of data, a real-time online monitoring system on the LAN is to be installed. The system can also send alarms by SMS or email when temperature and/or humidity variations move outside the defined tolerance range. To install this system for the best possible benefits, Rotronic recommended heat mapping to Rausch AG.

Heat mapping serves to collect environmental data in various rooms before a project is actually started in

order to find out where the loggers should be installed and where there are critical points, or so-called hot and cold spots.

### **Essences and products in the right place**

There is, however, another benefit to mapping. Dr Philippe Ch. Auderst, Technical Director, explains that the essences and dry and fresh herbs have always been of the highest quality and that their correct storage is therefore vital. José Trujillo, Head of Quality Management, adds: "The mapping will also tell us if we store our raw and end products in the right place." Some essences need to mature in containers for months before they are ready for use in production. This requires not only far-sighted planning, but also a well-organized store with optimum environmental conditions.

### Installation of the new measurement system

In the first phase Rotronic will install data loggers from the HygroLog HL-NT series in the high-bay stores. The packaging of premium products is their ‘calling card’. Labels must therefore be attached perfectly and must not come off during transport or after opening of the packaging. Optimum storage is therefore a must. Air humidity should range between 40 and 60 percent and temperature from 16 °C to 24 °C.

In a further installation phase the satellite site in Bot-tighofen will also be equipped with new probes and a LAN-based measurement system.

**“Rotronic’s flexibility was an important criterion for me in awarding them the contract.”**

José Trujillo  
Head of Quality Management, Switzerland



*Rausch philosophy: only use the best herbs.*



*Dr Philippe Ch. Auderset, Technical Director, and José Trujillo, Head of Quality Management.*

### The challenges of mapping

These lay in the step-by-step execution of the mapping project, and especially in the weather influences. José Trujillo: “Rotronic’s flexibility was an important criterion for me in awarding them the contract.” Future challenges were also taken into account in the mapping. José Trujillo: “Our aim with the mapping was to create clear bases for decision making and to obtain details on our building infrastructure and air streams. In addition to this, the new measurement system will also prepare us for possible new legal regulations.” Dr Philippe Ch. Auderst explains the legal aspect: “The quality of our products is high. To ensure we can prove this when need be, we store at least one reference sample of every production series under optimum conditions for a period of five years.”

### When and how is mapping used?

Mapping is performed when installing complex measurement systems or where law dictates. Mapping is primarily used in the pharmaceutical and food industries and in any premises where correct climate is critical. To obtain accurate measurement data, it is vital to evaluate the premises and position the loggers correctly. Mapping can also be used for existing measurement systems to check that the loggers are always installed at the right measuring points.