

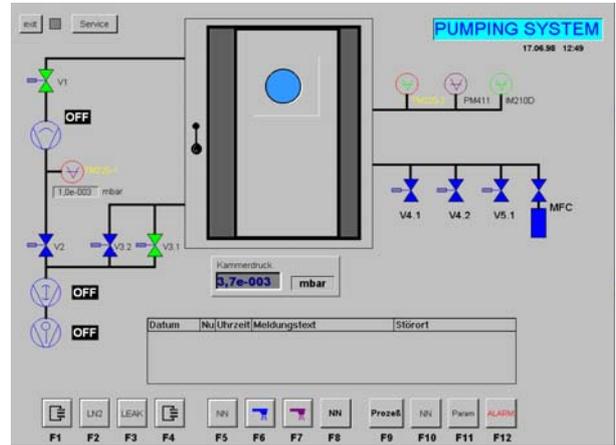
# Visual A Series

## PLANT VISUALISATION WITH WINCC

WinCC is a state of the art HMI product. The ability of the system, to be programmed in "C" and its build-in flexibility let us be able to generate a great variety of specific solutions in respect of vacuum and thin film processes.

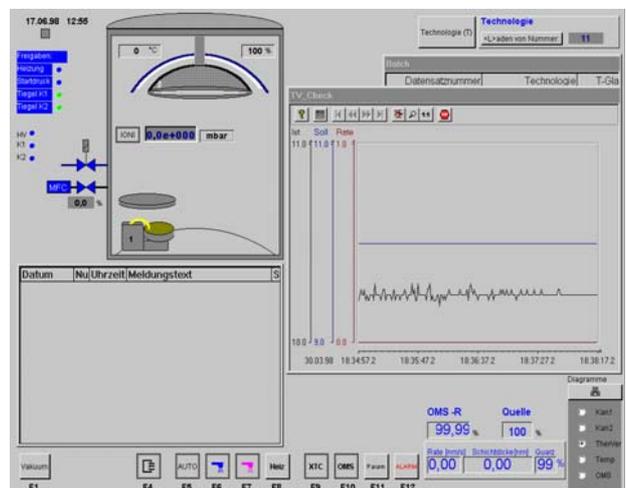
Cause the system operates on WinXP or Win 2k, most of the users can operate our solution without additional aducation.

The basic operations are well known from Windows, the plant specific operation are self explaining. This product supports network-computing as well as data transfer into other Windows applications like EXCEL. Siemens WinCC in addition with Siemens PLC is an powerful tool to solve all needs of thin film deposition.



## GRAPHICS

WinCC is a 100% Windows Application, which means, that the well known look and feel of Windows is realised in the plants pictures. We design our plant-pictures as real as possible. All the functionality of Windows is waiting in the back to help the operator and all the peripherals, supported by Windows like barcode scanners or printers can be used.



# SYSTEM DESIGN

System contents:

State of the art PC with 17" , 19" or TFT monitor. The personal computer is a stand alone desktop system or build in a cabinet (19" industrial version) to take care about the specials in a clean-room area. This PC communicates with the PLC via high speed serial interface, called MPI or for more performance PROFIBUS.

In case of modifying an older plant, existing PLC (p.e. Siemens S5) can be connected to the visualisation system, in case of a complete revision of the plant, the existing controller is replaced by a Siemens S7 PLC Siemens, as a world wide operating manufacturer of PLC's guarantees a high reliable support of spare parts. The primary plant safety, as not build in by hardware, is controlled by the PLC, because the design of a plc is for industrial environment. To realize a full automatic deposition, a database is

filled with process parameters.

All the needs of thin film deposition are mentioned in this database.

The database is organized in recipes, which contains the process parameters for one layer and in Jobs which contains the several receipes.

Thickness measuring is supported.

There are special functions implemented for service and maintenance.

# STANDARD APPLICATIONS

List of modified plants:

Leybold	Balzers
A700	BAH 25xx
A1100	BAK 6xx
A1600	BAK 7xx

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