



HygroTech

FASTCONTROL

concrete production sector

system for controlling concrete mix's water

INTRODUCTION TO THE SYSTEM



The main need of concrete production companies, especially for precast production, is the **CONSTANT QUALITY** of the concrete mix. The control of the **RESISTANCE** and **WORKABILITY** requires automatic instruments that can intervene quickly and effectively on all production and analysis phases, compensating and adjusting all variable aspects of the productive process, such as: drain water from aggregates, detection errors on aggregates humidity, errors from water batching systems, etc.

The hygrometric measurement system **HYGROTECH** represents today a new development drawn from already experimented techniques, and a guarantee of results and state of the art technology.

The system can control and adjust the humidity of the concrete **MIX** by means of special sensors designed to be installed on any type of mixer.

It is designed for being integrated into the automation system that controls the batching plant, to guarantee a perfect control of the raw materials, composing the mix, and it can be installed on all **XPERT** line of products.

Moreover, the **HYGROTECH** brings to the user various services such as: configurability of parameters and features, event supervision, filing of batching data, filing of formula curves and data printouts.



DIRECT SERVICING

Customer Service



Quality

QUALITY ASSURANCE SYSTEM

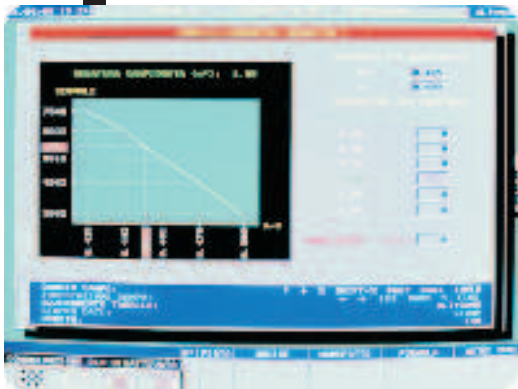
- KEYBOARD COMMANDS
- INTEGRATION WITH GENYX/TL AND GENYX/PF
- INTERFACE WITH TEST LABORATORIES
- AVAILABILITY OF SEVERAL LANGUAGES



SYSTEM'S FEATURES

The HYGROTECH system controls and intervenes on the adjustment of the water in the concrete, during all the production cycle.

It records, for each mix, one hygrometric curve detected and self-learned according to the reactions generated in the concrete by the progressive addition of water, through a completely automatic process.



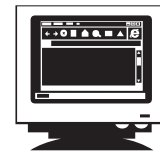
STANDARD SENSOR



SENSOR FOR PLANETARY MIXERS



CORRECTION ACCURACY:
+/-1,5% ON MIX'S WATER



- IBM compatible PERSONAL COMPUTER Celeron2,4GHz
- 1 Hard Drive with 40 Gb
- 1 Drive for 3"1/2 diskettes (1.44 Mb)
- 2 RS232 serial port
- 4 USB port, Ethernet, CD Rom
- 1 CENTRONICS parallel port
- 1 WINDOWS XP operating system
- 1 CRT 17" color monitor
- 1 serial module (485) for PC/PLC communications
- 1 PLC with input/output cards

In other words, by means of the sensors applied into the mixer, the system studies the variation in the behaviour of the material while mixing, during the progressive addition of water. The result is a characteristic curve of a specific mix, that it is used afterwards for immediately reaching the correct mix's humidity. After the laboratory check of the actual Water/Cement ratio of a sample, the curve can be adjusted by simply entering in the computer the difference of water (plus or minus) relative to the ideal result.

