

# mmct



**COMPUMAT**



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# mact

**COMPUMAT** is a micro processing system for control and management of batching plants and manufacturing processes. This electrical/electronic computer programming system for automatic and manual control of the central operating system has the following characteristics:

- Sheet metal formed electrical box:
  - 1) For batching control and management
  - 2) For the storage of the electrical power controls and control logic
- Controls and predisposition for batching elements
- Digital display to monitor the batched quantities
- Place into function the Automatic CYCLE
- TELEASSISTANCE
- VIDEO-CONTROL



## COMPUMAT STANDARD System

### 1 "HARDWARE" Control Unit:

- Personal-Computer
- Video-Terminal and Keyboard
- Hard Disk
- Printer
- Interface Bus on PLC
- Electrical Power Board

### 2 "SOFTWARE" Control Unit:

- Mix Design Elaboration and Storing
- Batching of Material
- Mixing of Components
- Concrete Distribution

Operating System: Windows®  
Programs with Visual Basic®  
and Access® Applications





## STANDARD PROGRAMS

### Mix Design Management:

Mix designs are saved to a hard disk. Each mix design contains information specific to the quantity of each single component; the quantity of water refers to completely dry aggregates. An unlimited amount of Mix design can be memorized.

### Daily Program Management:

Interlocking at each usage point (standard 8) or different Mix design:

- To the mixer to prepare the concrete
- To the number of openings to unload
- To the number of cycles
- Finally, to give priority in a queue to specific request

### Management of the material usage and material stock:

Recording of material usage. The outgoing material is automatically recorded, while the incoming material can be recorded automatically or by console depending on the selected choice. In addition to the primary materials, the material usage is also recored for each point of utilization making it possible to calculate material usage for each working job.

### Test Programs:

A functioning test is performed on all electrical parts of the machine and includes:

- Reading for the control of the scale calibration
- Control of every input of computer data
- Control of every output towards power controls

### Reporting Program:

The product batching cycle is recored on disk and includes the following:

- Production date and time
- Number of Mix design performed
- Site requesting concrete
- Percentage of error in the batching of each aggregates
- Final Quantity of aggregates
- Batched quantity of cement
- Batched quantity of water
- Liquid additive quantity
- Aggregates humidity reading by humidity probe
- Moisture compensation

### Fully Tested Cards

### Humidity and Plasticity Control



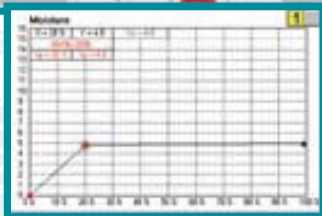


# COMPUMAT

- Simplification of the concrete production and distribution process
- Optimization of the rate of the machines usage
- Storage of all production data
- Monitoring of the material usages

Address	Current description	Set value	Actual value	Plant Condition	Actual value	Plant
03	Water-Mixer	0	0	Red	0	Red
03	Water	0	0	Red	0	Red
03	Water-Mixer	0	0	Red	0	Red
03	Water	0	0	Red	0	Red

Actual	Set	Plant	Status
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



Water Mixer 1	Actual	Set	Plant
Water-Mixer	0	0	0
Water	0	0	0
Water 2	0	0	0
Water 3	0	0	0
Water-Mixer	0	0	0
Water	0	0	0
Water 2	0	0	0
Water 3	0	0	0
Water-Mixer	0	0	0
Water	0	0	0
Water 2	0	0	0
Water 3	0	0	0
Water-Mixer	0	0	0
Water	0	0	0
Water 2	0	0	0
Water 3	0	0	0
Water-Mixer	0	0	0
Water	0	0	0
Water 2	0	0	0
Water 3	0	0	0
Water-Mixer	0	0	0
Water	0	0	0
Water 2	0	0	0
Water 3	0	0	0