

EVERY BATCH; GOLDEN BATCH!^{*}

WITH

ELECTRONIC SUPERVISOR

A PATENTED PRODUCT TO ENSURE THAT EVERY BATCH YOU PRODUCE:

- Is of consistent quality
 - Runs optimal batch time
 - Carries best possible safety measures
 - Delivers optimal energy consumption
 - Provides optimal raw material consumption
 - Conveys accurate & truthful reporting
 - Offers easy management of recipes for different products
- ALL THIS WITH MINIMUM INVESTMENTS
- NO DEPENDENCE ON SKILLED WORKERS / CHEMISTS

How do you do it?

The technique is simple. (Refer the sketch on the next page)

Your Standard Operating Procedure (SOP) is broken down into detail & small instructions like "Start Stirrer", "Open Valve for Addition of Solvent", etc., are stored as pre-recorded voice messages in Electronic Supervisor. A Public Address Amplifier with Loud Speaker is connected to the Electronic Supervisor. The Electronic Supervisor announces these instructions over the Public Address System. Two Push Buttons labeled as "Acknowledge" & "Done" are provided in the plant which are connected to the Electronic Supervisor. The worker upon hearing the instruction presses the "Acknowledge" Push Button and is then expected to comply with the instruction. Following which, the worker presses "Done" Push Button. The Electronic Supervisor then announces next instruction. The batch is carried out in this manner, i.e. announcement of instruction by Electronic Supervisor, acknowledgement by worker that he has heard the announcement, execution of the instruction, and finally pressing the "Done" Push Button.

Electronic Supervisor logs the time when the instruction was issued, what time the worker heard the instruction, and at what time he confirmed his compliance to the same. Every step of the batch is allocated a specific time for execution. If worker takes more time than the pre-defined allocated time for the step, Electronic Supervisor keeps on reminding him of excess time taken for the step till he complies with the instruction.

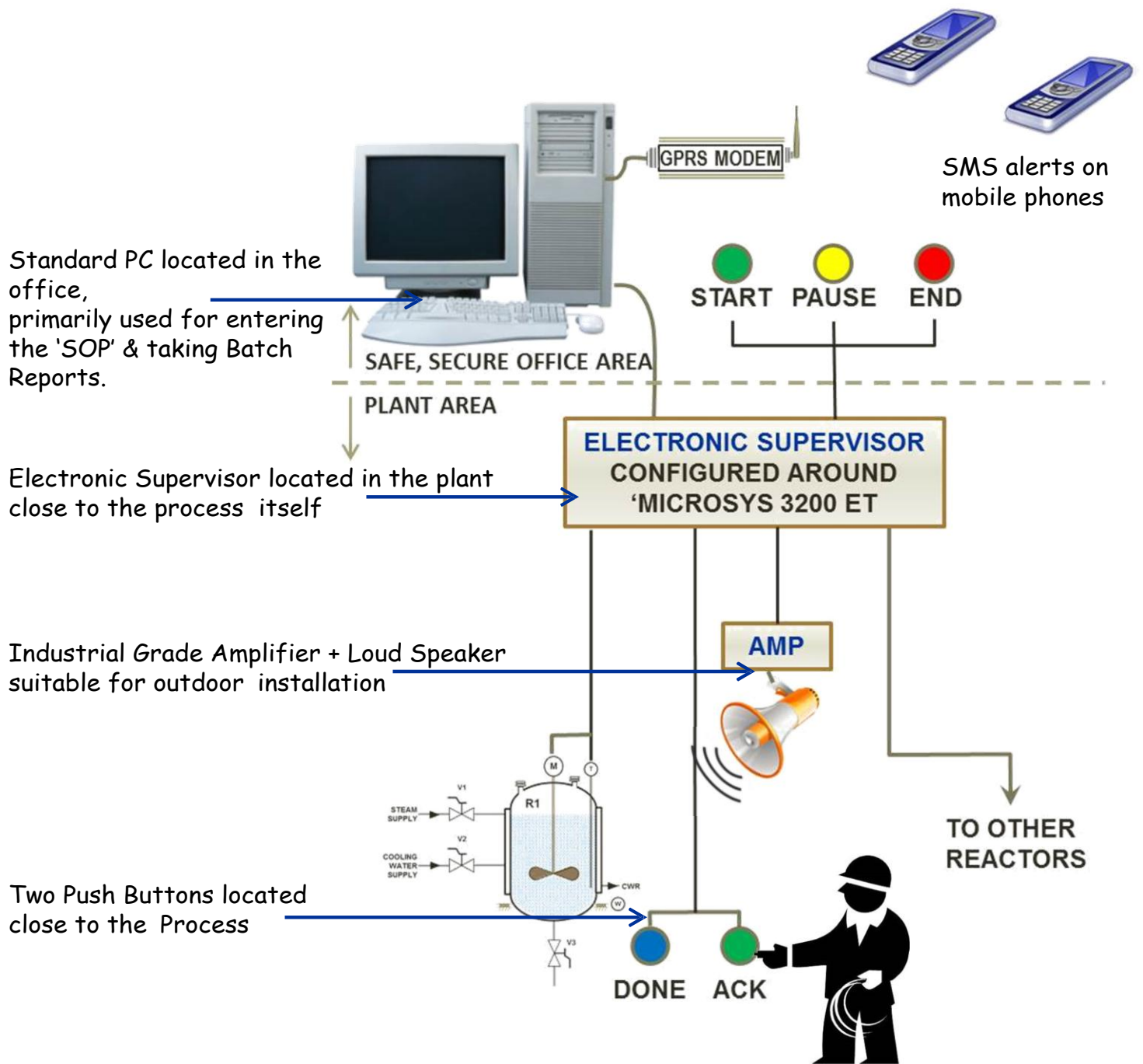
Additional sensors may be connected to Electronic Supervisor for measurement of Temperature, Pressure, Weight, Flow, Level, etc. Electronic Supervisor stores readings of these measured parameters.

SMS alerts can be generated whenever these parameters exceed preset limits or other process upset conditions, including excess Batch Time.

A PC connected to the Electronic Supervisor can be used to configure process recipes, retrieve data stored in Electronic Supervisor, & generate reports for review by top management.

* Golden Batch: After certain experimentation you arrive at a conclusion that under specific process conditions you get the best possible quality with optimal consumption of raw materials & energy and is produced in minimum time. We call this batch as Golden Batch. We treat this batch for benchmarking other batches produced.

ELEMENTS OF 'ELECTRONIC SUPERVISOR'



For further queries, please contact:

Marketing Department

Mobile: +917755 967 660

Email: marketing@microversedcs.com

Manufactured By:

MICROVERSE AUTOMATION PVT. LTD.

79/2, Dangat Industrial Estate, NDA Road, Shivane, Pune - 411023

Telephone: +91 20 25290041.

MicroVerse
automation pvt.ltd.