

# PRODUCTION BLOCK ALARM MANAGEMENT SYSTEM

## Process Overview

In any process industry, production block is the **work place** where various process and operations are carried on in turn to get the **final desired product**. In bulk drug industry the main resource are Solvents, the properties of most of the solvents are **toxic, corrosive, & inflammable** in nature. The **handling of these solvents** required **utmost care** during each operation. The advanced Production block alarm management required to **protect plant uptime and safety by reducing losses caused by ineffective alarming**

## Need For Automation

As technology developed, global competition pushed manufacturing operations to **increase production** while using less energy, and producing less waste. The minimizing of waste requires the alarm to **prevent batch fails, parameter deviations, and instrument failures** etc.,

The fundamental purpose of Production block alarm is **to alert the operator** to relevant abnormal operating situations. They include situations that have a necessary or possible **operator response** to insure:

**Personnel Safety, Environmental Safety, Plant Operation & Equipment Safety, Product quality**

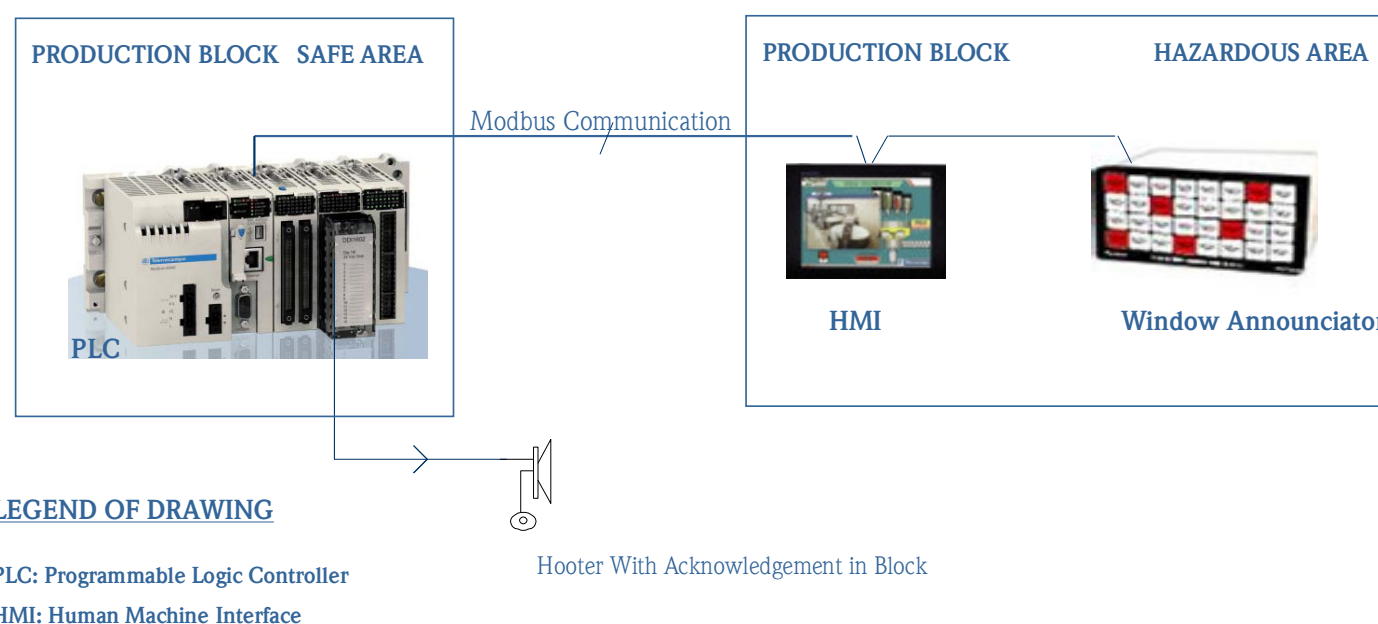
## System Components Control System (Software- Hardware) HMI, SCADA

A **control system** with Open architecture design provides complete flexibility, high performance & ease of operation to the end user. The high-performance processor is considered which is capable of multi-tasking, best memory management & high reliable. **Remote I/O modules** for far spread blocks, **HMI's** at various production blocks for ease of operation. Remote process monitoring is performed by **SCADA** and various management information reports.

The system uses advanced software tools and components to build the necessary logic for better process controlling and process. The software includes features like Graphics, Trending, History and reports on customized formats.

An **internal FAT** will be conducted on the Panel Engineered & simulation test will be conducted at our in-house to analysis right logic & controlling developed in the system to ensure stringent control.

## System Architecture



## System Components Field Instruments (Sensors, Transmitters, Control Elements)

The better controlling needs effective sensors to read the process, transmitters to send the read parameters to control system, better logic to address and best control element to execute. The hooters & annunciators, alarms on process deviation. The precise controlling enhances the accuracy of the system. The performance of the system is dependant on the Instruments.

The field instruments used in the projects is from **POLMON manufactured** instruments or **from the reputed manufactures**. The instruments used are **tested at our in-house** and sent to end-user after checking to ensure product quality.

## System Benefits

- Minimization of plant shut-down time
- Enhances Operation safety
- Immediate operator attention on parameter deviation
- Process Priority based Alarm Management optimizes operator time
- Power Consumption Management
- List of Error diagnostics messages

## More Information

For more information on POLMON solutions, contact your POLMON account manager

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