

## EQUIPMENT TIME CYCLE MONITORING SYSTEM

### Process Overview

Process plants are associated with high capital expenditure and operational costs. Plant Asset Management is a collective of corporate culture, strategies, methodologies, systems and procedures aimed at maximizing the benefits derived from all material and human assets in a plant. The various disciplines involved with managing real property assets from the time of investment through the time of disposition, including acquisition, management, leasing, operational/financial reporting, appraisals, audits, market review and asset disposition plans. The equipment status should be monitored to know the status of equipment operating time, to improve the equipment lifetime, planned maintenance, equipment shut-down reasons etc

### Need For Automation

Equipment monitoring is preferred for the following benefits

- Monitor and manage all field equipment
- Integrate with corporate systems such as maintenance and dispatch
- Remotely monitor the equipment and prevent developing problems before they lead to downtime
- Reduce emergency maintenance
- Adopt a condition-based maintenance methodology
- Significantly extend equipment life
- Maximize production and reduce operating costs

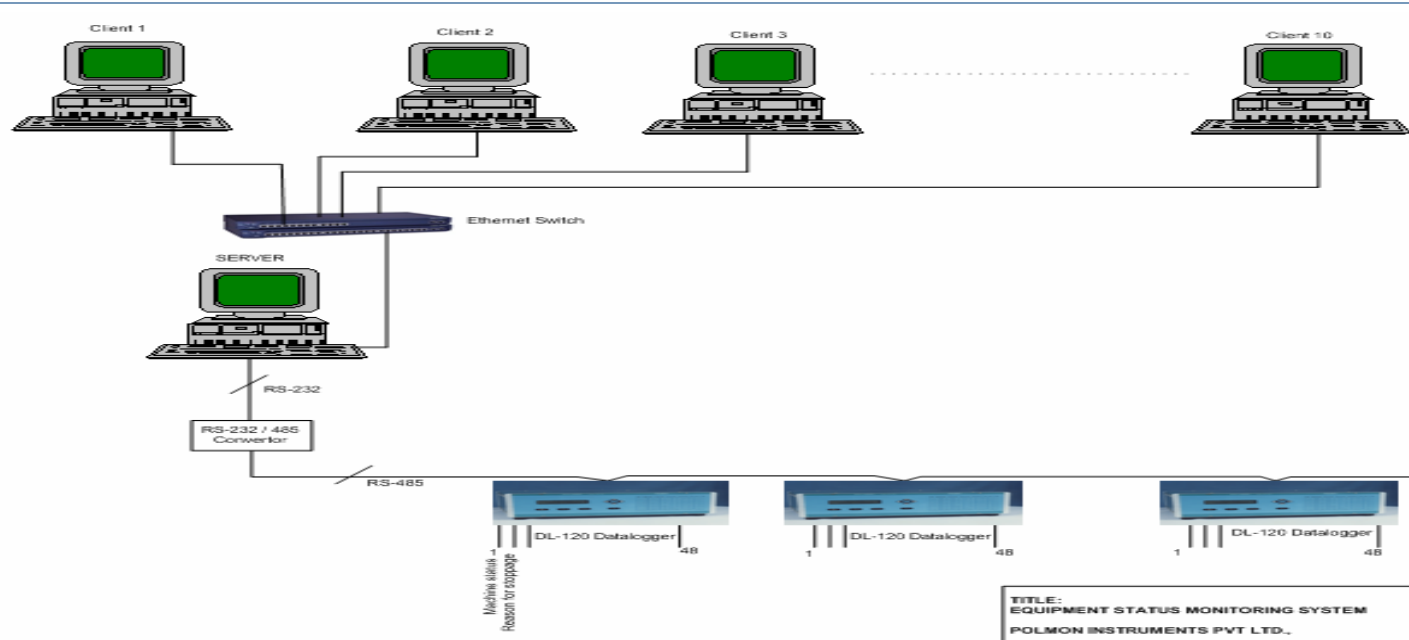
### System Components Control System (Software- Hardware) HMI, SCADA

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

- Reduce equipment downtime
- Increase plant availability
- Improves efficiency
- Reduction of production cost
- Minimization of equipment break down
- Monitors and issues reports on overall machine efficiency

#### More Information

For more information on Pharma IT Solutions, contact your POLMON account manager

Mr.N.V.Sagar  
Asst Manager – Automation  
Mob No.: +91-9959999092  
E-Mail Id: vidyasagar@polmon.com

**POLMON Instruments Pvt. Ltd.,**  
'POLMON HOUSE', Nizampet Road  
Kukatpally, Hyderabad – 500072  
Tel: 040-23053046, 23055970, 23057642  
Website: www.polmon.com