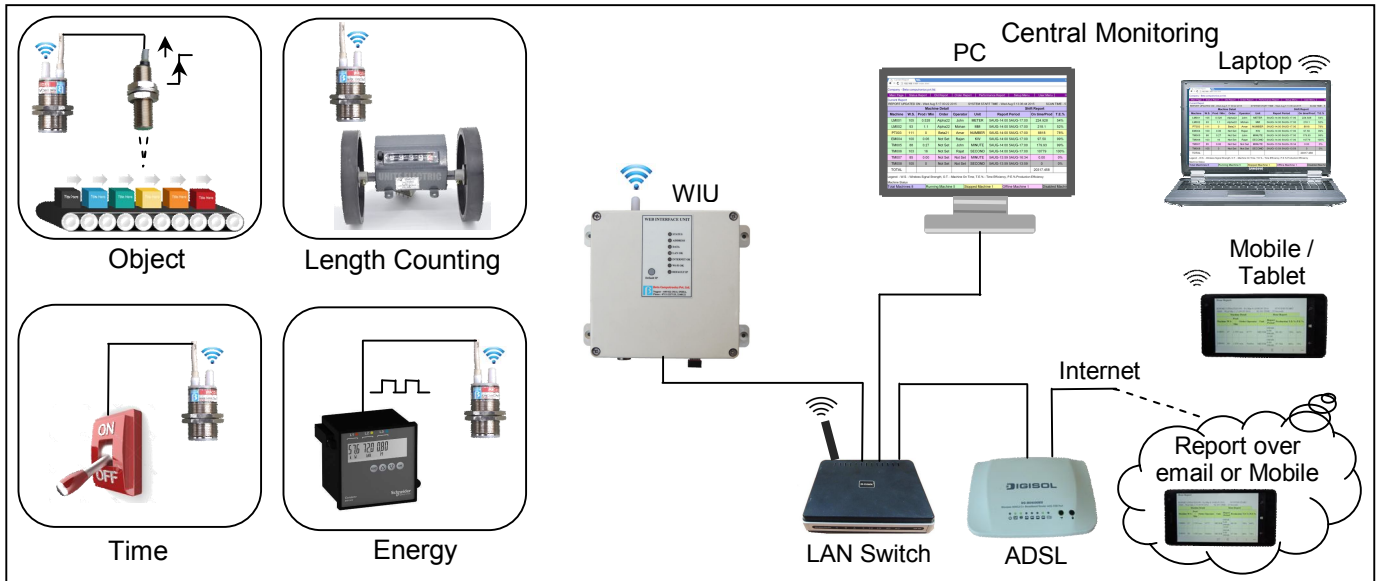




PMS - A low cost, fully modular system to monitor production, downtime, utility consumption, operator / machine performance, machine status and batch / order management – no more manual reading.



**Why Monitor** – If you want to make more out of your factory without further investments, then you need to increase production and reduce losses, but it is easier said than done. However this is only possible if you can monitor production and utility consumption online, and take immediate corrective action. Usually production and utility consumption reports are taken manually and available at the end of shift or day, and you do not get any chance for correction. But if the production and utility data is available on line, then you can take corrective measure to avoid production or utility losses. For example if your target production for a machine 3000 meters per day, and if you monitor the production efficiency online, you can immediately take the action to correct the fall in production efficiency. The same analogy applies to utility consumption also. Moreover if an order is running on multiple machines, and order is near completion, then you have to decide which machine to continue with order and which machine to be loaded with new order. If the orders are in batches of fixed quantity, then the task becomes more difficult. The PMS provides you the current status of balance order quantity along with current batch production on each machine at any point of time. This helps in controlling excess order quantity, which usually is a direct loss. The online report also provides you current status of all the machines like running, stopped, or switched off.

**The PMS** – It is an integrated system to monitor production, utility (like electricity, water, gas etc), machine status (like machine run time, door or gate open or close time etc), order (current status, batch, balance order) and utility consumption per unit of production. The PMS provides current, hourly, shift wise, day wise and month wise reports. These reports are saved and available for comparison with current report. You can view the current status of order like completed quantity and balance quantity, utility consumption. In addition to this you can analyze the utility consumption per unit of production and operator performance. In case you are away from your factory, selected reports are mailed directly to you. So you are always updated, where ever you are. If you are not satisfied with reports or wants reports in different format, the PMS provides raw data or processed data in CSV file which can be directly read in excel sheet or make your own program to interface with your data base / SAP system. The WIU is fully customizable and you can set 6 email addresses with report type, shift timing, customize main page, add operator name, customer order with target production, utility data. Help is available in each menu so that you do not have to look at manual. You can update the system software on line also. You can take back-up of all data including the setting on your PC, and restore the complete setting.

**The CONSTRUCTION** - The PMS is fully modular type and consists of two types of production sensors. You can start with minimum sensors and can add more sensors as and when required. These sensors are installed on various machines, and communicate the data to Web Interface Unit (WIU). The communication between sensor and WIU is wireless, so that installation and maintenance is hassle free. One WIU support up to 60 sensors in circle of 50 to 100 meters. The WIU has 32bit CPU operating at 1 GHz and has wired 100mbps Ethernet LAN and open Wi-Fi AP. The operating system of WIU is Linux which is crash proof and highly reliable. The WIU generates reports in HTML format and acts as a Web server in your network. So you can use your favorite browser to view the reports on all computers connected to LAN. All the data in sensor and WIU is fully protected against power failure. The time of day is usually synchronized with internet, but if your network does not have Internet, then there is Real Time Clock chip with battery backup in WIU. The WIU uses intelligent algorithm to detect the network setting and most of the time you do not need to set the Ethernet & system time.



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