



# DATALOG<sup>®</sup>

Online monitoring system for Spinning

## Production & Power Monitoring



Ring Frame

Speed Frame

Comber

Lap Former

Draw Frame

Carding

spin  
profits,  
non-stop

[datalogtechnologies.com](http://datalogtechnologies.com)



## A keen eye on performance

Datalog Online Monitoring System facilitates continuous monitoring of Production and Power at each machine individually and collectively. The data is processed to generate reports that help in seamless running of all operations and identify weak areas, help mills continuously to improve productivity, save costs, translating into higher profits.

Mills have the choice of selection between Production Monitoring & Production cum Power Monitoring.

### Production Monitoring

- **Ring Frame & Speed Frame** - Kg, RPM, M/min, TPI, Doffs, Stops
- **Preparatory** - Prod Kg, Stops and Min /stop
- All machines connected to one computer
- ERP Interface / Excel Transfer

### Machine Terminal

- Display of key data
- Provision to enter Long Stop reason (Long Stop Code)

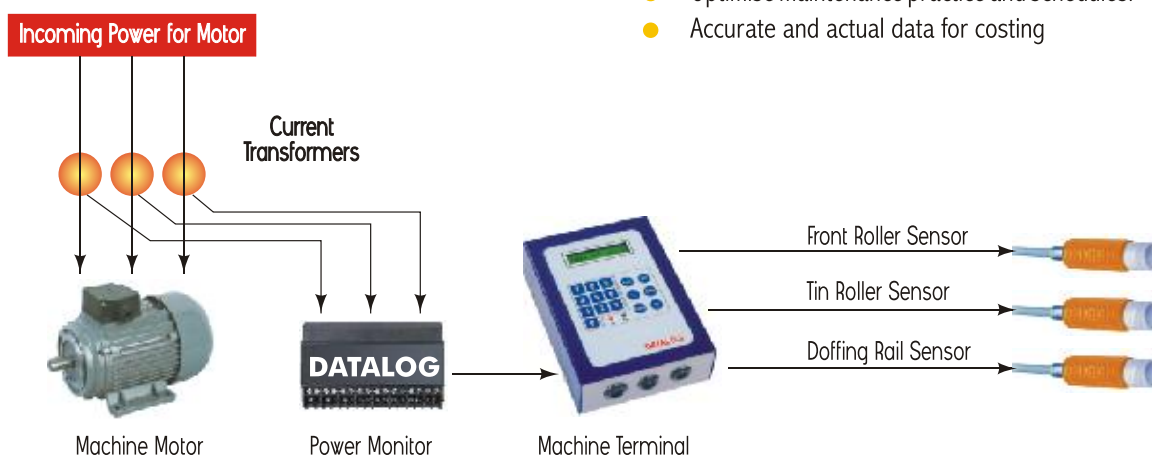
### Central computer and user Nodes

- Various reports on Production, Stoppage, Efficiency
- Doff Wise & Doff Prediction Reports for Speed Frame & Ring Frame
- Comparison reports
- Performance reports for Top Level Management
- Snap study, Exception reports, Operator Planning
- Easy identification of Efficiency of the machines in different colours
- Efficiency Trend Graph

### Options :

Score board, SMS Alerts Module, Email reports, Doff status display

### Wiring Diagram for Datalog Power Monitor on Ring Frame



### Production & Power Monitoring

Datalog Monitors Power parameters like KWh, KVA, Power Factor, Frequency, Voltage and Current for each Ring Frame and motor temperature (Optional) along with production data like Kg, Hanks, TPI, Doff Time, Efficiency. The integrated information helps to optimise productivity, minimise cost and maximise profits.

### Machine Level

- Optimise and strike balance - Cost vs Production – UKg
- Optimise speed profiles, machine parameters
- Prevent avoidable breakdown
- Monitor Health of the Motor to Improve its performance
- Identify problems in Mechanical alignment of the drive shafts, bearings, lubrication

### Department Level

- By comparing the various motors / machines running similar counts and rating, helps in bringing the lower performing machines at par with the best.

### Mill Level

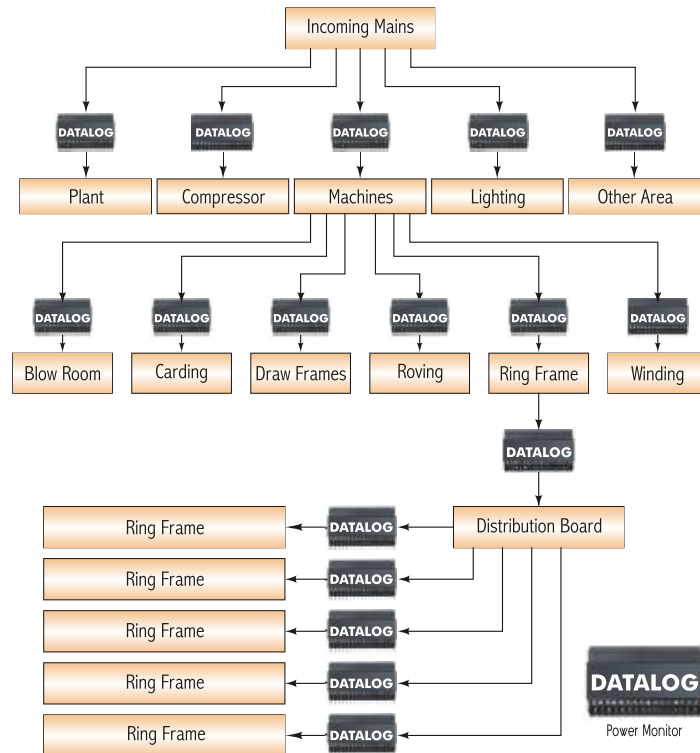
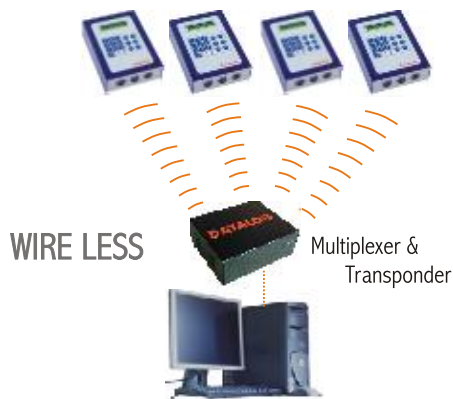
- Monitor utilities – compressors, H- Plant
- Monitor MV, SSB, DB etc
- Account and reconcile for total units consumed, identify leaking points and weak areas.
- Help optimise quality of power - Power factor, Hz, Voltage
- Forewarn deteriorating points before it is too late .
- Optimise maintenance practice and schedules.
- Accurate and actual data for costing



## Hardware & Software Configuration

A Machine Terminal is installed on each machine to monitor Production and Power data (optional). It comes with an in-built microprocessor, a user friendly keyboard and display for ease of operations. Machine Terminals are connected through the Multiplexer to the Central Computer that generates various reports. The software is in Visual Basic with SQL Server or Oracle as backend. Connection from the Machine Terminals to the central computer can be wired or wireless.

Diagram Showing how Power can be Monitored at Various Places



## Report Structure

The reports can be called on the screen or on the printer. The user can get all the information at their fingertips. By taking the appropriate steps the efficiency of the Shed / Operator can be increased immediately.

- Text & Graphical Reports
- Machine Wise, Article Wise, Operator Wise, Supervisor Wise, Department Wise
- Production Reports, Stoppage Reports, Doff Report, Doff Prediction Report, Efficiency Reports
- Performance Reports, Efficiency Trend Graphs, Comparison Reports, Assignment Reports
- Power consumption, Power factor, Units consumed, KVA, etc., reports related to power.
- Power consumed vs Production comparison for each DOFF, Shift etc.,



## OPTIONAL ATTACHMENTS

### DOFF Prediction Display

Shows the machines queuing for DOFF in ascending order in terms of time. This enables the DOFF team to plan the Doff accordingly and ward off delay due to more frames getting ready for doff simultaneously.



### Datalog SMS Alerts

Keeps you connected with your mill 24 x 7 around the world. Uses commercially available mobile SIM Card to send summary data and Alert notifications to concerned persons directly to their respective mobile phones.

#### SMS can be sent to various mobile numbers of customer's choice .

The management can choose the specific information, summary or exceptions to be informed directly to the staff, so that the staff concerned gets the critical information instantly and start acting on it right away.



#### Example

- Emergency breakdown stop information to Fitter or Electrician
- Periodical report summary - Shift / Day information to Manager or MD
- Alerts automatically on production, efficiency, stoppage, Doff time or when a critical parameter reaches a preset value.

### Put up a Score Board. Step up productivity

The Score Board displays the performance efficiency of the shed and helps to motivate floor level workers. In other words, Score Board can be used as a performance enhancing tool by letting the workers know for sure where they stand in terms of overall performance. Score Board helps workers to assess their own performance and score better in their subsequent operations.



### Datalog at the heart of productivity

When it comes to providing total solutions for textile automation, Datalog is in a league on its own. Incorporating innovative technologies Datalog manufactures Online monitoring systems for Spinning, Weaving, Knitting and Fabric Inspection. For the past one and a half decades, the company has quietly established its reputation as a trusted partner in progress for customers across India, Indonesia, Bangladesh, Thailand, Australia, Rwanda, Mauritius etc. Strong focus on R&D and a clear perception of customer requirements have contributed to Datalog's ability to provide customised solutions to help improve productivity and quality.

Datalog's facilities are top-of-the-line. A dedicated team of engineers backed by highly experienced people at the helm ensure that every product from their stable delivers results

Manufactured by :

**DATALOG TECHNOLOGIES P. LTD.,**

6, 3rd Street, Narayanadas Layout, Tatabad  
Coimbatore - 641 012. India.

Telefax : + 91 - 422 - 249 2964 / 249 2965

E-mail : [datalog@airtelmail.in](mailto:datalog@airtelmail.in) / [datalog@md2.vsnl.net.in](mailto:datalog@md2.vsnl.net.in)

Website : [www.datalogtechnologies.com](http://www.datalogtechnologies.com)