CLD Datalogger

Online Data Acquisition System for Spinning

Online Acquisition System for Spinning

Device 1 display:
```
        230.6
        86.4%
P/MI
Eff
```
Keypad: Mtr, Pick, Stop, Eff, Set, S c, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
Tx Rx
CLASSIC Dataloggers

Device 2 display:
```
M-05  RPM
Picks  :        231.5
Eff  :          52460
Meter:          89.3%
                19.6
```
Tx   Rx
Channel   Shift
CLASSIC Dataloggers

Spin Profits Non stop

Classicloomdata.com

ONLINE PRODUCTION &

POWER MONITORING

for Ring Frame, Speed Frame, Comber,

Draw Frame, & Carding.

ONLINE POWER MONITORING

for Blow Room, Auto Conner humidification

Plant, Compressor, Lighting Load & Other

Areas

Micro Information of each Point

- Identify Weak Areas
- RPM
- TPI
- Production in KGS
- Production in Hanks
- UKG
- Doff Stop
- Creel Stop
- Lapping
- Other Stops
- Cop Buildup vs. Speed

Micro Information of each Point:

Identify Weak Areas

Voltage

Current

PF

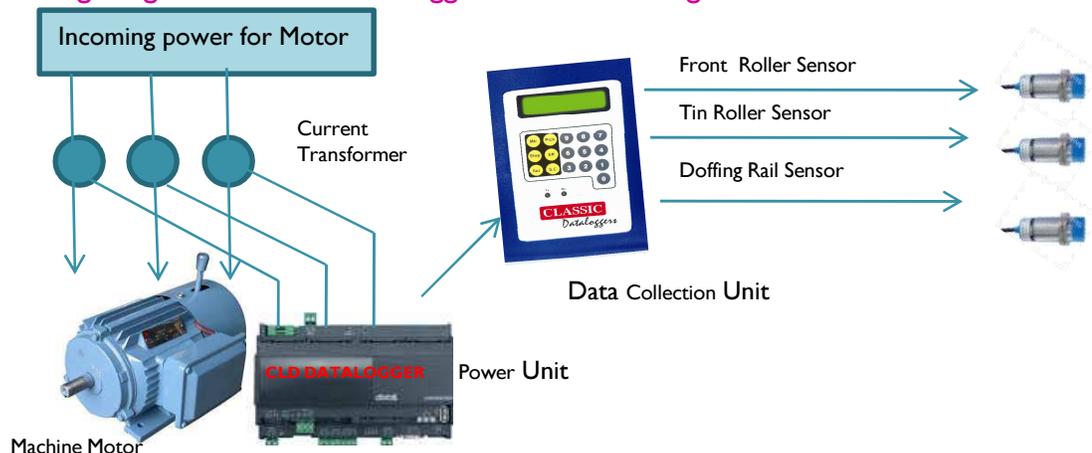Frequency

KVA

KWH

Power Graphs

Reconcile Units Consumed

Optimizes

Speed Pattern for a lower power consumption

Balance Cost vs Production

Prevent avoidable stops

Monitor Health of Motor

Identify Mechanical Alignment of Drive Shaft, Bearing, Lubrication

Compare Various Motors / Machines Running the same Count

Bring Low performance Machine on par with the best

Reduces

- Machine Down Time
- Operator Work Load
- Power Cost
- Air Consumption (optional)

Reduces:

* Machine Down Time

* Power Cost

Increases

- Productivity
- Power Utilization
- Operator Efficiency

Increases

* Productivity

* Power Utilization

wiring Diagram for CLD Datalogger monitor on ring Frame

Incoming power for Motor

Current Transformer

Front Roller Sensor

Tin Roller Sensor

Doffing Rail Sensor

Data Collection Unit

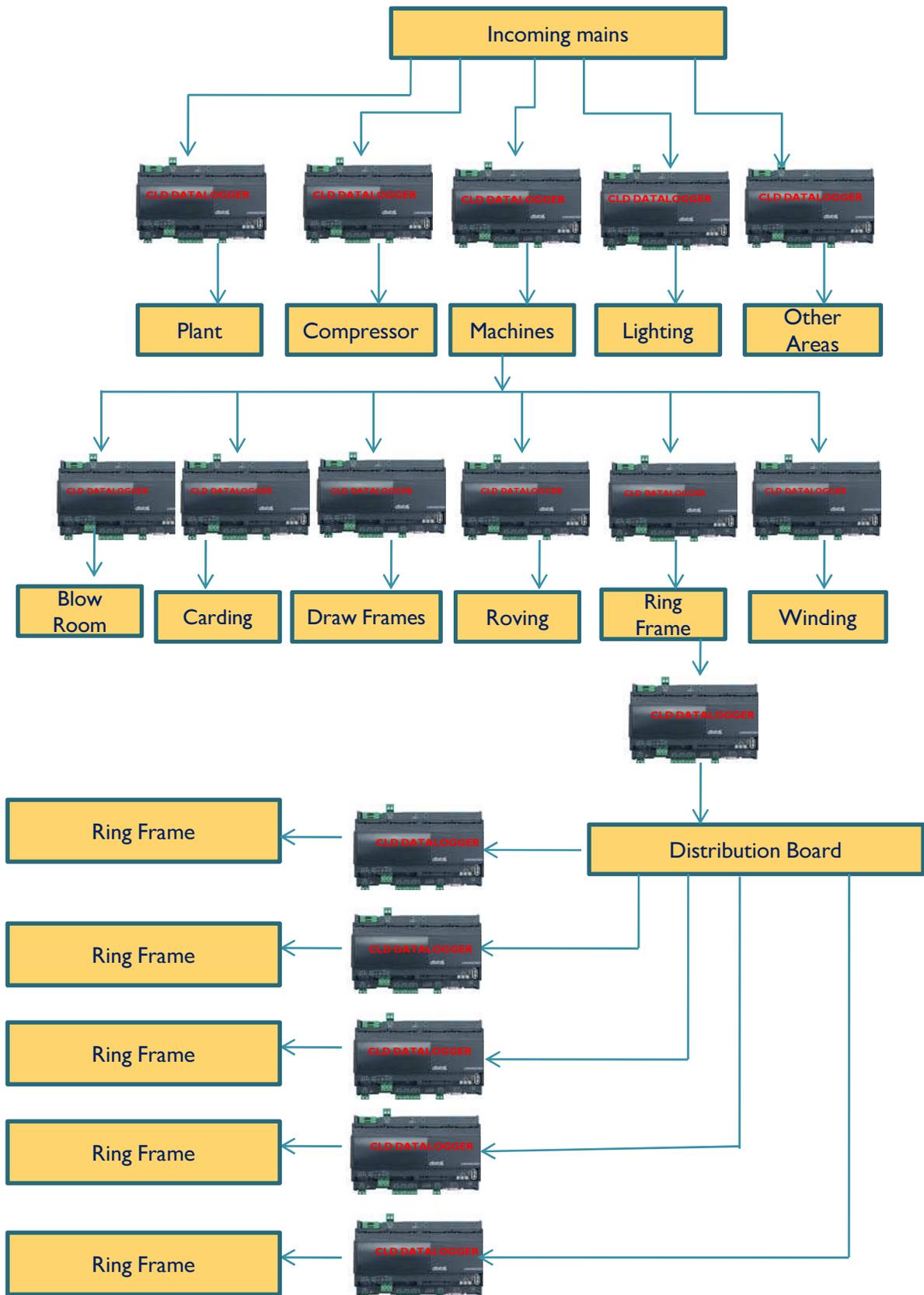Power Unit

CLD DATALOGGER

Machine Motor

Classic Loom Data at the heart of productivity

When it comes to providing total solutions for textile automation, Classic Loom Data is in a league on its own. Incorporating innovative technologies, Classic Loom Data has quietly established its reputation as a trusted partner in progress for customers cross the Globe. Strong focus on R&D and clear perception of customer requirements have contributed to the company's ability to provide customized solutions to help improve productivity and quality. Classic Loom Data's facilities are top-of-the-line. A dedicated team of engineers backed by highly experienced technical people at the helm ensures that every product from their stable delivers results.

Online Acquisition System for Spinning

Diagram showing how power can be monitored at various places

Incoming mains
→ CLD DATALOGGER → Plant
→ CLD DATALOGGER → Compressor
→ CLD DATALOGGER → Machines
→ CLD DATALOGGER → Lighting
→ CLD DATALOGGER → Other Areas

Machines
→ CLD DATALOGGER → Blow Room
→ CLD DATALOGGER → Carding
→ CLD DATALOGGER → Draw Frames
→ CLD DATALOGGER → Roving
→ CLD DATALOGGER → Ring Frame
→ CLD DATALOGGER → Winding

Ring Frame → CLD DATALOGGER → Distribution Board

Distribution Board
→ CLD DATALOGGER → Ring Frame
→ CLD DATALOGGER → Ring Frame
→ CLD DATALOGGER → Ring Frame
→ CLD DATALOGGER → Ring Frame
→ CLD DATALOGGER → Ring Frame

Data Collection Unit

A Data Collection Unit is installed on each machine to monitor Production and Power data (optional). Data Collection Units are connected through the Data Communication Unit to the Central Computer that generates various reports. Connection from the Data Collection Units to the central computer can be wired or wireless.

Single M/c Type

Using this type, collect the data from one machine. It has
        *keyboard with LCD display Model
        *Without Keyboard Seven Segment Model

Keyboard with LCD display Model
This model have a small LCD display and with key pad. Display will show current RPM, Breakage, efficiency etc.. Also Operator can put stop codes (eg. 55 = Mechanical, 56 = electrical or57= waiting for parts etc...) (These codes have must be pre-defined in the system)

7 Segment Display Model

Without key board all input the options are available in the computer system only, Auto roll doffing attached to it. Machine will automatically Stop when reaches the specified meter and the red indicator will blink. Reset key is available to reset or restart the machine. Big display (Seven segment display)

Multichannel M/c Type
Using this type, Collect the data from group of machines . It is very efficient and cost effective model. It also has
        * Keyboard with LCD display Model
        *Without Keyboard Seven Segment Display

LCD Display will show RPM, Breakage, Efficiency etc.
By selecting key we can see the Machine information vice versa.

Stop Code/Sort/Weaver Assignment Entry Device:
This Common Device is used for assigning the sort details, Stop code details& weaver details by selecting the machine number and entering the details through the keyboard.
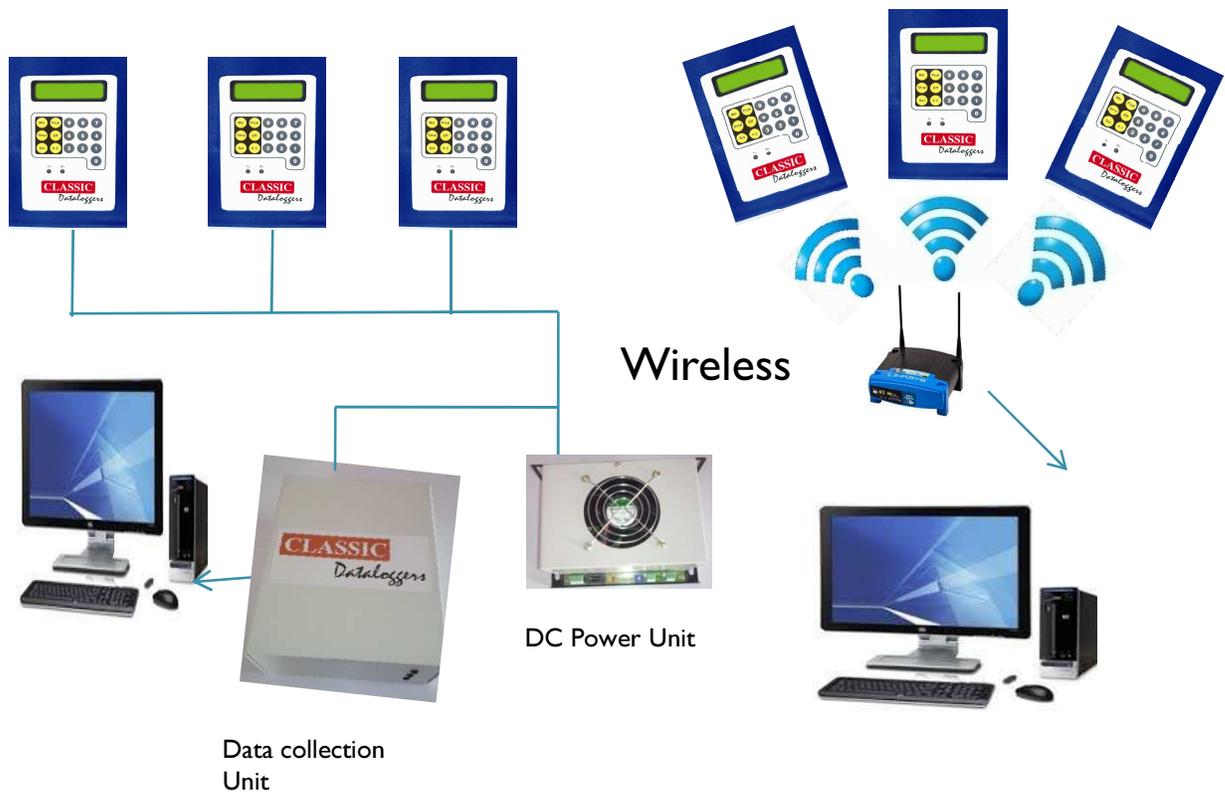
Software :
The computer on which the Online Data Acquisition system software is installed, collects the data from the Data Collection Unit through the data Communication Unit and generates various reports.
The software acquires the data From the looms and arranges in well structured reports, which can be easily interpreted. The reports can be called through the Menu Driven User Friendly Software. GUI nature of the software laminates the complicated keystrokes and codes. It has The Facility to transfer the data to an ERP system. The software can be installed on various nodes
across the plant.

Hardware & Software Configuration

Wireless

DC Power Unit

Data collection
Unit

Report Structure:

The reports can be called on the screen or on the printer. The user can get all the information at their fingertips

- •Text & Graphical Reports
- •MachineWise, ArticleWise, 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, Shiftetc.,
- •Air Consumption Reports(Optional)

Online Acquisition System for Spinning

Specification Monitoring	Production & Power Monitoring On RingFrame, speedFrame, Comber Lap former, Draw Former & Carding	Power Monitoring On Blow Room, Auto corner, Humidification plant, Compressor, Lighting Load & Other Areas
Production in KGs	✔	
Production in Hanks/Mtrs	✔	
Ukg	✔	
Rpm	✔	
M/Mi	✔	
TPI/TPM	✔	
Doff Stops/Time	✔	
Creel Stops/Time	✔	
Lapping /Time	✔	
Efficiency	✔	
Other Stops /Time	✔	
Power Consumption	✔	✔
KWH	✔	✔
KVA	✔	✔
Frequency	✔	✔
Voltage	✔	✔
Current	✔	✔
Power Graphs	✔	✔
Air Consumption(optional)	✔	
Ring Frame speed Control(optional)	✔	
Machine Terminal with keyboard & Display on each Machine	✔	

Online Screen

Production	
Hanks	0.9
Kg	13.5
Eff	93. 8
Kwh	23.4

Score Board

Doff Prediction Display

Mcno	Minutes
25	35
38	24
39	23

967

SMS

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