



Real Time Monitoring & Data Logging With OEE Analysis



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Real-Time Monitoring of Process Parameters & Data Logging

Smart Factory with Industry 4.0

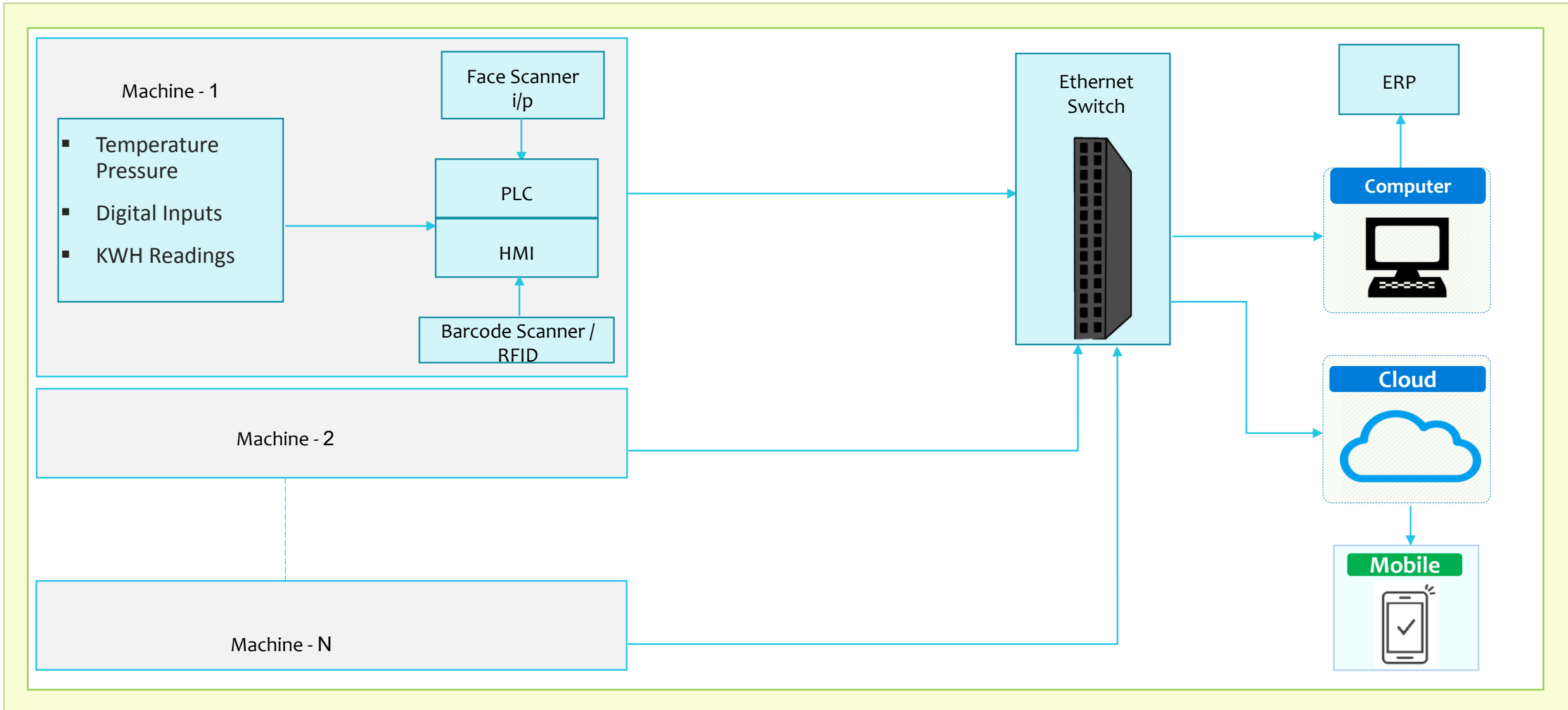




Logged Parameters

**Temperature | Pressure | Production Data | Mould Life |
kWH | Barcode or RFID | Smart Sensors | Stores & Dispatch
database**

- Temperature inputs from sensors / RS485
- Pressure inputs from pressure Transmitters
- Curing time, Cycle time
- Production Data
- Energy meter readings
- Mould life assessment using Barcode
- Operator wise data



Control Panel Instruments Required

- PLC with Ethernet
- HMI with Ethernet
- Face Scanner
- Barcode Scanner
- Barcode Printer

Parameters Involved

- Temperature
- Pressure
- Flow
- Digital inputs from start / stop/ emergency/ cycle complete etc.
- Barcode scanner / RFID via Ethernet
- Barcode print acknowledge
- Face scan input

Computer with standard configuration is common to all machines and can be situated centrally.

Variants Selection by Dropdown Menu

1. Tool details- Tool number selection

Database contains- Drawing (Part) number / Number of cavities / Customer details / Date of inception

2. Machine - Machine number

Database contains -Type/ Model / Make

3. Operator – Punching on HMI at every machine

Database contains- Name of operator / Unique ID number

4. Barcode Scanner – To scan the mould details

Database contains- Preferred data of mould from database

The database is interlinked with ERP and data is fetched or transferred as per selections or when required

Features

- Monitors and logs the above parameters in real time for every cycle
- Alarm generation for abnormal parameter condition
- Machine start / stop interlock for abnormal operation
- Powerful software for report and analysis
- Machine wise OEE calculations
- Historical Data
- Identify Poor Performing Equipment
- One year warranty and free support
- Three iterations / changes in software free for one year



Operation & Theme

The operator punches himself on the HMI. This gives a real time input of his presence on the assigned machine.

Selection from Barcode – Tool Number (Mould Details)

Selection from HMI - Machine Number

Operator pushes the cycle start push button

Interlocks -

1. Temperature of all zones not within limits
2. Pressure not within limit
3. Flag

Flags raised by supervisor -

1. Breakdown
2. Tool maintenance
3. Trial
4. Startup condition

The time taken for each flag is recorded as down time under that head.

After the cycle completion, the barcode printer is enabled.

The printer prints the stickers as per the tool selected and number of cavities.

Next cycle will start only after the printer prints the stickers and the operator acknowledges it.

Alarm Conditions

Machine doesn't start if -

- Temperature is not within specified limits
- Pressure is not within specified limits
- Flag generated by superwiser

Software Features

- Bulk data collection from all machines in real time
- Reports available after 6 hours
- List of OK and NOT OK cycles
- Dashboard for critical parameters
- Software alarms on computer
- Run hour and efficiency statistics per machine
- OEE calculations based on daily data analysis
- Graphs and reports for machine wise energy consumption
- Export to Excel

Login & Admin Screen

Digital Data Logger

Sign in

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26-Nov-2019

Dashboard

Admin

Company Management

User Management

Machine Mould Mapping

Reports

User Management

[Home](#) / [User Management](#)

Show entries

Search:

Sr. No	Name	Email	Phone	Password	Role	Edit	Delete
1	admin	admin@admin.com		admin	Admin		
2	user			user	User		

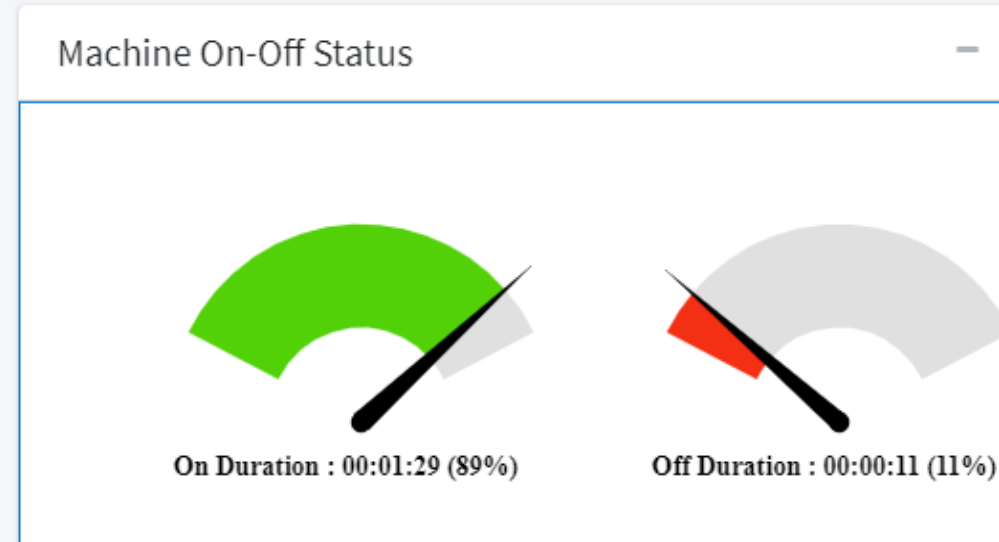
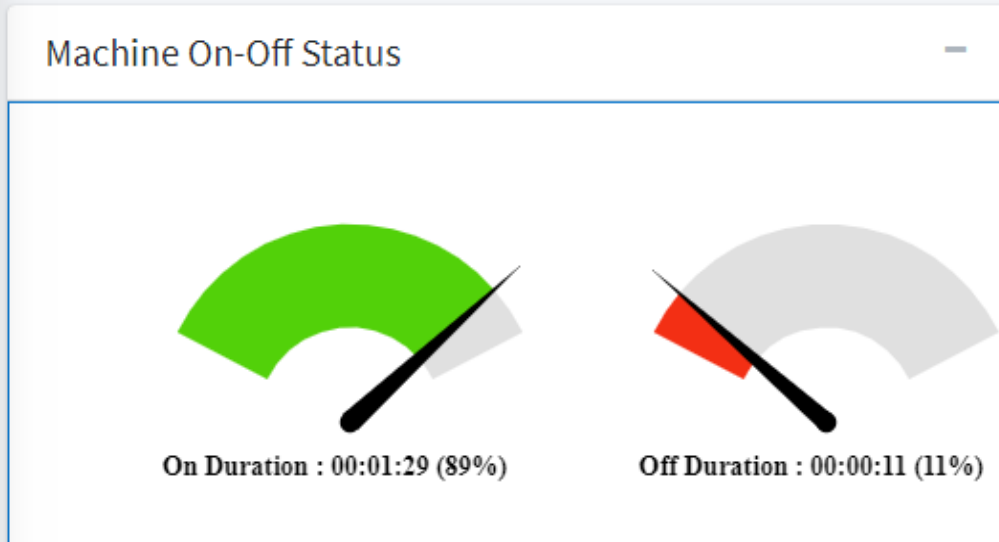
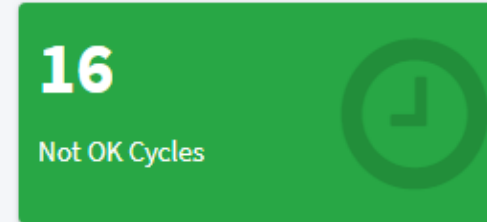
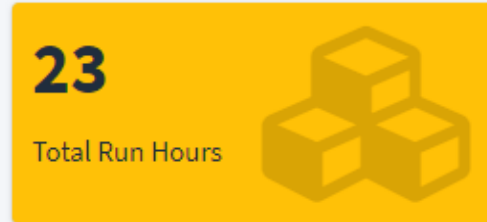
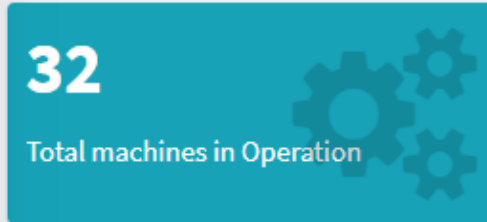
Showing 1 to 2 of 2 entries

Previous **1** Next

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Version 1.0.0

Dashboard



- 17-Jan-2020
- Dashboard
- Admin
- Reports



17-Jan-2020

Dashboard

Admin

Reports

Home

Reports Dashboard

Reports Dashboard

[Home](#) / [Reports List](#)



Machine

Temperature Vs Time



Machine

Pressure Vs Time



Machine

Cycle Time(OK and NOT OK)



Energy Meter

Energy consumption



Machine

Mould Life

Tabular Report

Machine wise On Off Duration

From Date



26-11-2019

From Time



10:33:58

To Date



26-11-2019

To Time



10:33:58

Machine

M07 : M-07

Submit

Close

Export To Excel

Graphical Report

Show entries

Search:

Sr. No. ↑↓	Machine ↑↓	Mould ↑↓	On Cycle Start Time ↑↓	On Cycle End Time ↑↓	Off Cycle Start Time ↑↓	Off Cycle End Time ↑↓
1	M07	>>>	Before Selected Period	>>>	15-05-2019 15:44:47	28-06-2019 12:45:41
2	M07	DCS93204/1A8	28-06-2019 12:45:41	28-06-2019 12:47:35	28-06-2019 12:47:35	28-06-2019 12:48:54
3	M07	DCS93204/1A8	28-06-2019 12:48:54	28-06-2019 12:53:17	28-06-2019 12:53:17	28-06-2019 12:54:43
4	M07	DCS93204/1A8	28-06-2019 12:54:43	28-06-2019 12:59:06	28-06-2019 12:59:06	28-06-2019 13:00:36
5	M07	DCS93204/1A8	28-06-2019 13:00:36	28-06-2019 13:05:00	28-06-2019 13:05:00	28-06-2019 13:05:12

KWH Readings

Module Wise KWH Readings

From Date



26-11-2018

From Time



10:42:24

To Date



26-11-2019

To Time



10:42:24

Submit

Close

Export To Excel

Show 10 entries

Search:

Date ↑↓	Molule-1			Module-2			Module-3			Admin Module	
	PP-1 ↑↓	PP-2 ↑↓	LP-1 ↑↓	PP-1 ↑↓	PP-2 ↑↓	LP-1 ↑↓	PP-1 ↑↓	PP-2 ↑↓	LP-1 ↑↓	PP-1 ↑↓	LP-1 ↑↓
01-05-2019	2,169,360	3,298,180	1,033,810	1,153,350	1,189,930	931,881	627,764	1,708,880	736,068	1,365,120	87,055
02-05-2019	2,176,420	3,319,360	1,038,530	1,156,980	1,198,170	934,744	631,066	1,721,480	738,972	1,369,160	87,378
03-05-2019	2,176,880	3,319,680	1,038,660	1,157,040	1,198,320	934,841	631,128	1,721,580	739,060	1,369,290	87,386
04-05-2019	2,171,430	3,304,320	1,035,190	1,155,570	1,192,440	932,620	628,744	1,711,300	736,988	1,366,500	87,155



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