

CALIBRATION MANAGEMENT SYSTEM

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INNOVATIVE SOFT SOLUTIONS

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Features

- ✓ This is the software to track calibration status of each and every Instrument in the plant across the year for timely calibration.
- ✓ A Windows 10 system having Wi-Fi / LAN connection is sufficient to use as server. There is no need for any other high-end Server. You can access the software from any computer connected in the LAN network.
- ✓ Software automatically updates next due date and displays the current status highlighting overdue in different color.
- ✓ **Automatic calibration status sticker are printed by the software !**
- ✓ Software automatically captures login name and time of entry whenever data is fed to the system which can not be edited. Hence you can see who has entered, what data and when! A nice security feature to eliminate manipulation!

Features

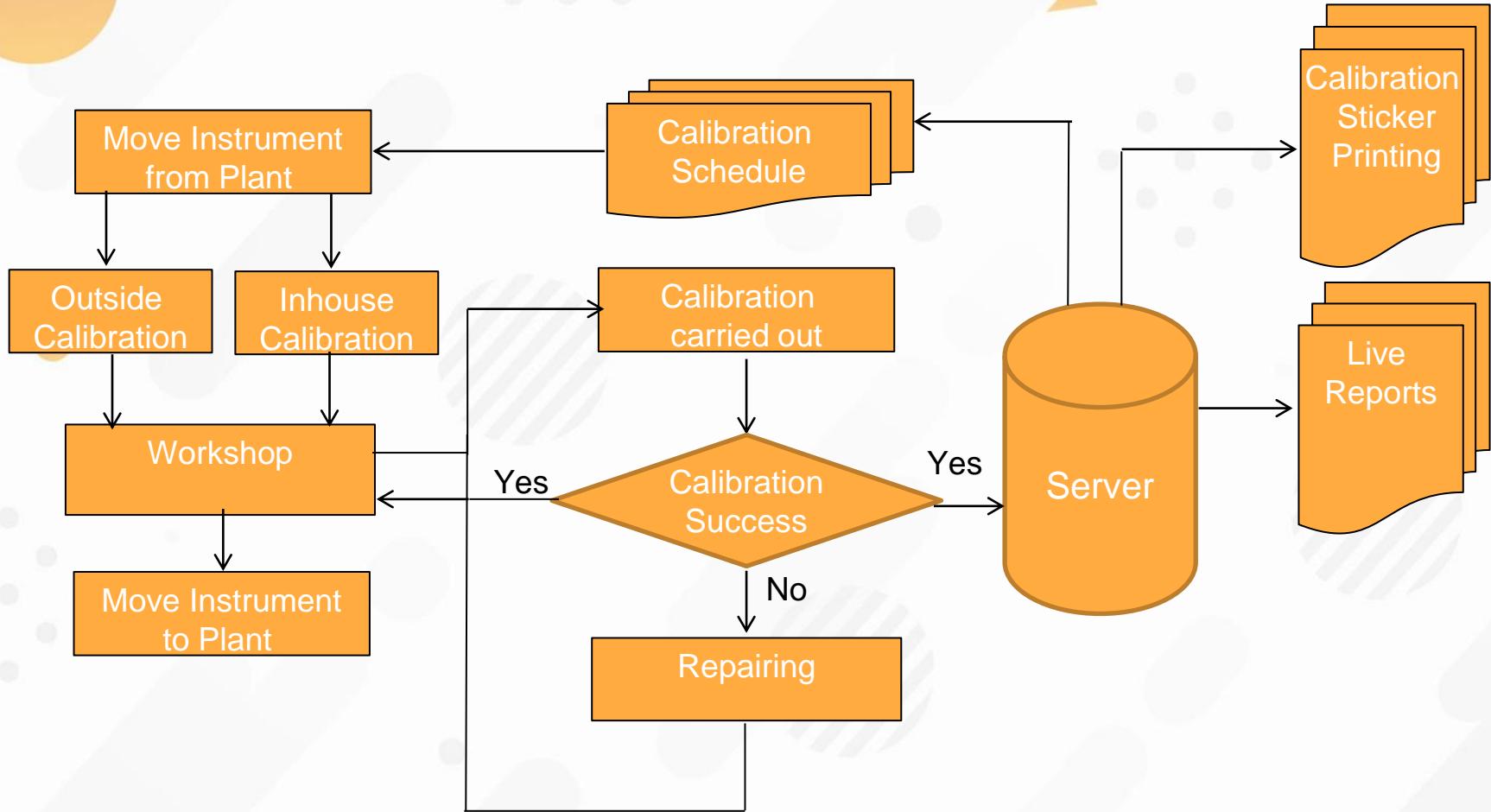
- ✓ **Dashboard** showing performance of calibration management on key elements in one page including graph.
- ✓ Our software employs **Responsive Web Design** & can be accessed through Computer, Tablets, Mobile phones.
- ✓ Highly secured, with user-based restriction to access information that **can be set or altered at anytime by the System Administrator in your organization without our involvement.**
- ✓ As an option, it can also be hosted & maintained by us in **cloud server**. You can access the data from anywhere across the world! More suited for -
 - Organizations with multi-plant locations spread across wider geographical area with central control.
 - Medium/Small organizations where it is un-economical to install IT infrastructures & maintain it at their end.
- ✓ Software generates Powerful & Live reports.
- ✓ All Reports can be downloaded in **Excel format** to your computer anytime.

Benefit of Cloud Server

If you go for our cloud server AMC option,

- ✓ No investment for you on server computer, its repair, maintenance and replacement.
- ✓ No need to invest for software for every site and can use the same software for all sites.
- ✓ No need to invest on power back-up like UPS.
- ✓ No need of daily backup of database.
- ✓ No need of employing any hardware / software computer engineer
- ✓ No AMC needed for your server as you don't need one.
- ✓ You can access data from your Computer/Mobile all 24hrs 365days of the year from your home or from anywhere across the world which is not possible if you go for your own office server.
- ✓ If you are going for more than one site and HO in different location, it is better to go for our / your own cloud server to reduce the cost and higher utilization and access level.

Working Flowchart



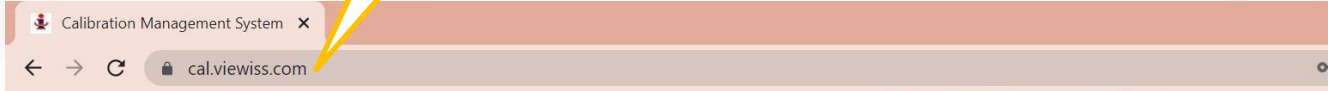
System Working

- Initially, We need to fill one time data entries like instrument master, Instrument field location master, last calibration date of all instruments. That's all you need to do!
- From that point onwards Software becomes live and starts generating schedule.
- Every time calibration is done successfully for an instrument, software automatically updates the schedule for next calibration for that instrument.
- Software can generate sticker for the instrument and you can print & paste it on the instrument after every calibration.
- Software generates powerful analytical reports for your right and timely managerial decisions.

Demo Site - Login Page

Address to demo site.

You can open this site, operate and view all the reports and download them to your system.



Login and password are prefilled by us in demo site.

A login form for the Calibration Management System. At the top is a circular logo with a wrench and screwdriver. Below the logo is the text "CALIBRATION MANAGEMENT SYSTEM". There are two input fields: the first contains the text "demo" and the second contains "....". Below the fields is a blue "Login" button. At the bottom, there is a toggle switch and the text "Reset Password ?".

CALIBRATION MANAGEMENT SYSTEM

demo

....

Login

Reset Password ?

main menu

Landing Page

Dashboard showing current status on important elements of calibration management

- Cal Mgmt
- DATA ENTRY
 - Field Activities
 - Lab Activities
 - Reports
- MIS REPORTS
 - History
 - Trend Charts
- MASTERS
 - Data Entry
 - Reports

Dashboard

Mar 2022

27
Instruments Due

Today

6 Due	5 Completed	1 Pending
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303 Total Instruments
33 Calibration due (prev month)
27 Calibration due (cur month)

Day-Wise Calibration Due

27
cur month

DETAILS

Calibration Success Rate

last 6 months 85% 128/150	last 3 months 65% 45/72
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Calibration Plan

Selection Panel

Instrument Category*

Instrument Type*

Instrument Tag*

FIND

RESET

Calibration Plan

   Instrument Tag... 

All calibration overdue instruments are color coded

InstrumentCategory	InstrumentType	Name	InstrumentTag	S.No	Make	Calibrated On	Cal Freq (Month)	NextDueOn	Location
Master	Temp Gauge	Dial Type Temp Gauge	MT4213		NHL	08/01/2018	12	08/01/2019	Lab
Master	Pressure Gauge	Dial Type Pressure Gauge	MP50123		MK	01/02/2019	12	01/02/2020	Lab
Line	Groove Dia Snap Gauge	Attribute Gauge	ISNG-2000		BSA	19/03/2020	3	19/06/2020	P5123
Line	Temp Gauge	Dial Type Temp Gauge	22/B01		NS	02/04/2020	6	02/10/2020	P7812
Line	Pressure Gauge	Pressure Gauge	13B/101		MIU	06/01/2020	12	06/01/2021	T453
Line	Temp Gauge	Dial Type Temp Gauge	T491		MK	30/09/2020	6	30/03/2021	Lab

Moving Instrument to Lab for Testing

Data Entry Panel

Action*

select...
select...
Remove to Calibrate (In-house)
Remove to Calibrate (Outside)
Remove as Failed

Select any of the option

MOVE

BACK

Select any of the instrument in the list and press move button to move..

To go back to previous screen

Calibration Plan

	Plant	Section	Instrument Category	Type	Name	Location Tag	Instrument Tag	Last Calibration
S	P1	Prodn	Line	Temp Gauge	Dial Type Temp Gauge	P7812	22/B01	02/04/20
S	P1	Utilities	Line	Pressure Gauge	Pressure Gauge	T453	13B/101	06/01/20

Calibration Data Entry Screen

Job List

Instrument Name	Tag	S.No	Calibrated On	Range Min	Range Max	UOM	Error Limit %	Cal Freq (Month)	Action
Dial Type Temp Gauge	T491	30/09/2020	0.000	200.000	Deg C	2.01	6	Moved to Lab for Calibration	

Data Entry

The list of instruments waiting for calibration appears here. You need to select any one. Then set values in the data entry screen will be automatically filled.

Once Instrument for calibration is selected in the waiting list, this column will be automatically calculated and displayed.

After entering all data, press add button to save data.

Select master instrument used for calibration

Error will be automatically calculated and displayed once data is entered

Instrument Tag	Calibrated On	Master Instrument	Range %	Set Value	Received Value	Cal Value	Error %
<input type="text"/>	<input type="text"/>	<input type="text" value="select..."/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="25"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="25"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="25"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="50"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="75"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="100"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="75"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="50"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text" value="25"/>	<input type="text"/>	<input type="text"/>	<input type="text" value="0"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Colour Code Approval Tested By Approved By Remarks

ADD

FILTER

EDIT

DELETE

RESET

Calibration Report Printing

Selection Panel

Instrument Tag*



T491

FIND

RESET

1. Select Instrument to display list of date-wise calibration done on the instrument.

Calibration Report (T491)

Report	Instrument Category	Type	Tag	Name	S.No	Range (Min)	Range (Max)	UOM	Error Limit %	Calibrated On	Certificate No	Master Equipm
	Line	Temp Gauge	T491	Dial Type Temp Gauge	0.000	200.000	Deg C	2.01	25/12/19	77	MT4213	
	Line	Temp Gauge	T491	Dial Type Temp Gauge	0.000	200.000	Deg C	2.01	05/08/17	78	MP50123	

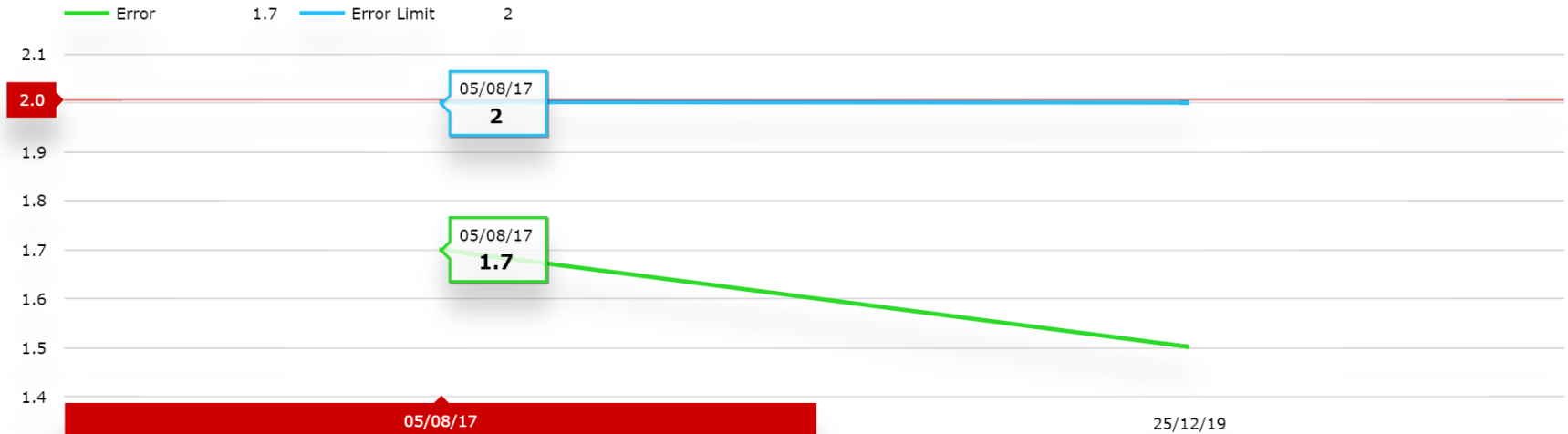
2. Excel icon to download the calibration report for that data. (report shown in next slide)

Calibration Report

Calibration Report				
Instrument Tag No: T491		Due Date for Calibration: 20-01-2020		
Instrument Name: Dial Type Temp Gauge		Date of Calibration: 25-12-2019		
Instrument Range: 0.000-200.000 Deg C		Calibrated By: Govin		
Error Allowed: Plus/Minus 2.00%				
Calibration Master Tag No: MT4213				
Tracability Certificate No: RG124F				
Caliration Due On: 08/01/2019				
RESULTS				
Test Points	Set Value	Before Calibration	After Calibration	Error %
0%	0	0	0	0.00
25%	50	51	50	0.00
50%	100	102	101	0.50
75%	150	152	151	0.50
100%	200	203	201	0.50
75%	150	152	151	0.50
50%	100	101	100	0.00
25%	50	50	50	0.00
0%	0	0	0	0.00
Remarks OK				
Approval Status: Approved				
Govin		Subash		
(signature)		(signature)		
Tested by		Approved by		

Instrument Error Trend Report

Instrument Error Trend (T491)



Sticker Printing

Selection Panel

Tag Printing starts at*

RUN

RESET

1. Select the first location of sticker.

3. Press run button to download the stickers as excel file (shown in next slide)

2. Select list to print stickers.

Select	Instrument Tag	Calibrated On	Approval	Tested By	Approved by	Frequency	Next Due On
<input type="checkbox"/>	T491	25/12/19	Approved	Govin	Subash	6	25/06/20
<input type="checkbox"/>	T491	05/08/17	Approved	Ram	Vishal	6	05/02/18
<input type="checkbox"/>	RG-3000	25/12/19	Approved	Sugumar	Siva	6	25/06/20
<input type="checkbox"/>	MT4213	02/01/20	Approved	Krishnan	Nirmal	12	02/01/21
<input type="checkbox"/>	ISNG-2000	05/01/20	Approved	Anand	Gopi	3	05/04/20

Sticker Printing

Tag No	T491
Calibrated On	25/12/2019
Calibrated By	Govin
Next Due On	25/06/2020

Tag No	RG-3000
Calibrated On	25/12/2019
Calibrated By	Sugumar
Next Due On	25/06/2020

Tag No	ISNG-2000
Calibrated On	05/01/2020
Calibrated By	Anand
Next Due On	05/04/2020

Tag No	T491
Calibrated On	05/08/2017
Calibrated By	Ram
Next Due On	05/02/2018

Tag No	MT4213
Calibrated On	02/01/2020
Calibrated By	Krishnan
Next Due On	02/01/2021

Tag No	ISNG-2000
Calibrated On	23/03/2020
Calibrated By	Ram
Next Due On	23/06/2020

Sample Data Entry Screen – Location Master

Data Entry Panel

Plant*

Section*

Location Tag*

ADD

FILTER

RESET

After entering required data in data entry panel, press this button to save the data. Saved data will be displayed in the table below.

Empties all fields in Data entry panel

Location Master

Displays data when filter button is pressed based on the selection of plant, section, location tag (or) any of them

Plant	Section	Location Tag	UserName	TimeStamp
P1	Prodn	P7812	demo	23/12/2019 16:33:44
P1	Prodn	P6723	demo	23/12/2019 16:33:24
P1	Prodn	P5123	demo	23/12/2019 16:33:06
P1	Prodn	73R	demo	06/01/2020 16:41:34

Every time data is added/updated, user id and time of entry gets saved automatically. That can't be edited by anyone

Sample Data Entry Screen – Location Master

Data Entry Panel

Plant* Section* Location Tag*

Location Master

Plant	Section	Location Tag	UserName	Time Stamp	
P1	Prodn	P7812	demo	23/12/2019 16:33:44	<input type="button" value="Save"/> <input type="button" value="Cancel"/> <input type="button" value="Delete"/>
P1	Prodn	P6723	demo	23/12/2019 16:33:24	
P1	Prodn	P5123	demo	23/12/2019 16:33:06	
P1	Prodn	73R	demo	06/01/2020 16:41:34	

Clicking on a row will convert it to editable fields and action icons will be shown (save, cancel, delete)

Save: changes you made will be saved in the database.
Cancel: changes will not be saved.
Delete: deletes the entire row from the database permanently.

For more information please get in touch with us,



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