

## The Calibration work with FieldMate

The calibration and adjustment of device are the important works for plant operation.

The new function of FieldMate provides the efficient calibration work by combination with FieldMate *"for adjustment and management of field devices"* and CA700 pressure calibrator *"for calibration of pressure transmitter"*.

# FieldMate®



For **Adjustment** and **Management** of field devices



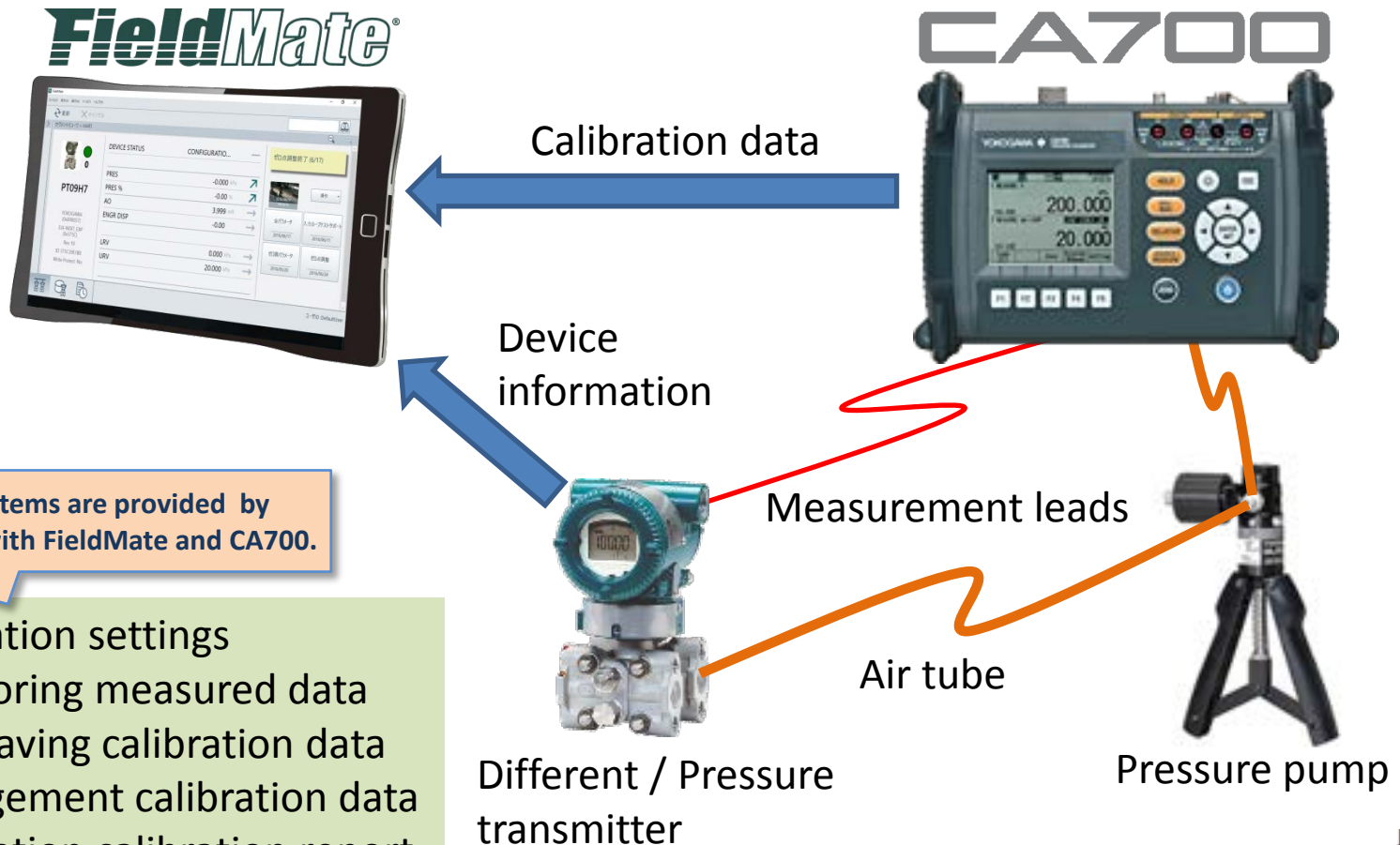
# CA700



For **Calibration** of pressure transmitter



## Connecting with FieldMate, CA700, and target device.




The following items are provided by combination with FieldMate and CA700.

- Calibration settings
- Monitoring measured data
- Auto saving calibration data
- Management calibration data
- Generation calibration report



## Calibration setting window

FM Pressure Calibration Support Device Tag :PT-101

Preparation 

Setting

Calibration As Found

Calibration As Found Result

Adjustment

Calibration As Left

Calibration As Left Result

Finish

**Setting**

Device Tag  Loop Name

Model

Press. range  Serial No.

Current range  Product date

Display range  -   Tolerance +/-  %

**Calibration Settings**

Calibration point: 3  
Direction: UpDown  
Averaging: OFF  
Scaling: OFF  
Calibration range: 0.00 - 100.00 kPa

Record point ☐ Manual ☒ Auto ( +/-  %  sec )

Calibrator

**Progress of calibration work**


**Enter the calibration settings in this window.**


**NEXT**

## Calibration work window

FM Pressure Calibration Support Device Tag :PT-101

**Calibration As Found ( 3points )**

Preparation 

Setting 

Calibration As Found

Calibration As Found Result

Adjustment

Calibration As Left

Calibration As Left Result

Finish

Current: 11.945 mA

Pressure: 49.668 kPa ( 49.00~51.00 )

Target ( Up 50.00% )

50.00 kPa

Tolerance: 1.00

Error: -0.02

Calibration Status

		Press.(kPa)	Current(mA)	Error	Result
Up	0.00%	0.000	4.000	0.00%	Pass
Up	50.00%				
Up	100.00%				
Down	50.00%				

Pressure value is within the target range.  
Please keep pressure value. 11 seconds left.

Engineer can perform the calibration work with monitoring pressure data.

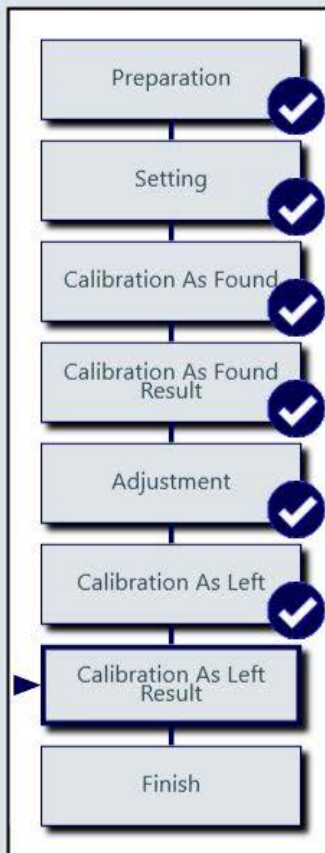
Start Stop

Back Next Finish

**NEXT**

## Calibration result window

FM Pressure Calibration Support Device Tag :PT-101



## Calibration As Found Result ( 3points/UpDown )

		Press.(kPa)	Current(mA)	Error	Result
Up	0.00%	0.000	4.000	0.00%	Pass
Up	50.00%	49.623	11.938	-0.02%	Pass
Up	100.00%	99.091	19.854	-0.01%	Pass

## Calibration As Left Result ( 3points/UpDown )

		Press.(kPa)	Current(mA)	Error	Result
Up	0.00%	0.002	3.999	-0.01%	Pass
Up	50.00%	50.418	12.065	-0.02%	Pass
Up	100.00%	99.653	19.944	-0.01%	Pass

Pass

Fail

The calibration result is displayed.  
This is the example of the calibration results of  
"As Found " and "As Left".

Comment

The calibration result can be  
outputted a s calibration report.

Generate Report

☒ Save all parameters

Back

Next

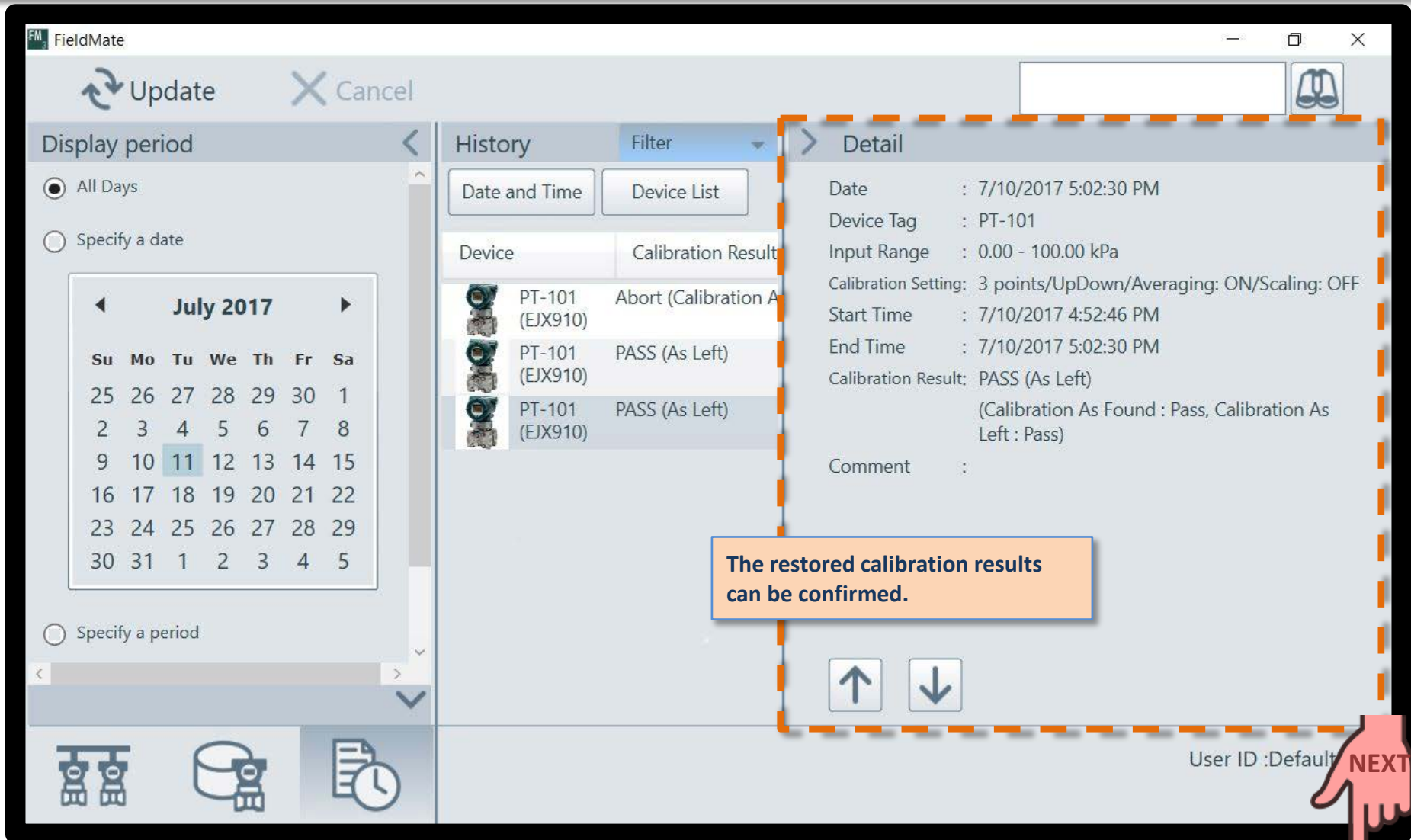
Abort

Finish

NEXT 



## Management window



The screenshot displays the FieldMate Management window, which is used for managing calibration work. The window is divided into several sections:

- Update/Cancel:** Buttons at the top left for updating or canceling the operation.
- Display period:** A section on the left with radio buttons for "All Days" (selected) and "Specify a date". Below it is a calendar for July 2017, with the 11th highlighted.
- History:** A central table showing calibration history. It includes a "Filter" dropdown and buttons for "Date and Time" and "Device List". The table has columns for "Device" and "Calibration Result".
- Detail:** A section on the right showing detailed information for the selected calibration event, including Date, Device Tag, Input Range, Calibration Setting, Start Time, End Time, Calibration Result, and Comment.

The History table contains the following data:

Device	Calibration Result
PT-101 (EJX910)	Abort (Calibration A
PT-101 (EJX910)	PASS (As Left)
PT-101 (EJX910)	PASS (As Left)

The Detail section shows the following information:

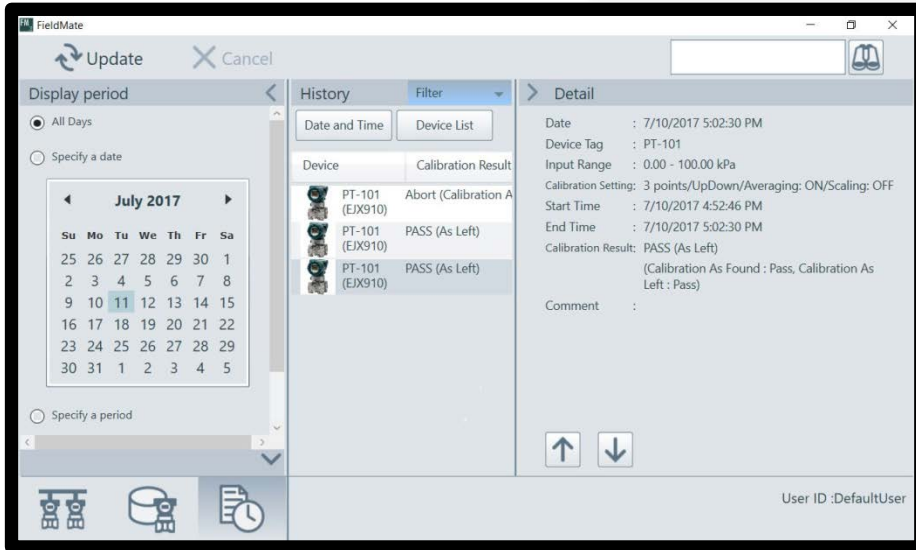
- Date : 7/10/2017 5:02:30 PM
- Device Tag : PT-101
- Input Range : 0.00 - 100.00 kPa
- Calibration Setting: 3 points/UpDown/Averaging: ON/Scaling: OFF
- Start Time : 7/10/2017 4:52:46 PM
- End Time : 7/10/2017 5:02:30 PM
- Calibration Result: PASS (As Left)
- (Calibration As Found : Pass, Calibration As Left : Pass)
- Comment :

An orange callout box points to the History table with the text: "The restored calibration results can be confirmed."

At the bottom right, the User ID is shown as "Default". A red hand icon with the word "NEXT" is pointing towards the right side of the window.

## Reporting Calibration result

Calibration result can be outputted as calibration report in any format.



**FieldMate**

Update Cancel

Display period: All Days (Specify a date)

History: Filter (Date and Time, Device List)

Device	Calibration Result
PT-101 (EJX910)	Abort (Calibration A)
PT-101 (EJX910)	PASS (As Left)
PT-101 (EJX910)	PASS (As Left)

**Detail**

Date: 7/10/2017 5:02:30 PM  
 Device Tag: PT-101  
 Input Range: 0.00 - 100.00 kPa  
 Calibration Setting: 3 points/UpDown/Averaging: ON/Scaling: OFF  
 Start Time: 7/10/2017 4:52:46 PM  
 End Time: 7/10/2017 5:02:30 PM  
 Calibration Result: PASS (As Left)  
 (Calibration As Found: Pass, Calibration As Left: Pass)  
 Comment:

User ID: DefaultUser

Calibration results

## Calibration Report

Tag No.	PT-101	Loop name	TANK A-01	No.	
Model name	EJX910-EMS4G-912DB-BB/FF1D1			Calibration date:	
Display range	0.0 - 100.0 %	Serial number	91GB17566747	Performed By:	
Input range	0.00 - 100.00 kPa	Product date	2004/05/23	Reviewed By:	
Output range	4.00 - 20.00 mA	Tolerance	1 % of Span		

Standard						Measured value			
%	Display	Input	Output	Input	Output	Error	Display	Error	Judge
		0.00	4.00	0.000	3.999	-0.01%			PASS
		50.00	12.00	50.082	12.012	-0.01%			PASS
		100.00	20.00	99.623	19.939	-0.01%			PASS
		50.00	12.00	50.277	12.043	-0.01%			PASS
		0.00	4.00	0.000	3.999	-0.01%			PASS

Display	Input	Output	Input	Output	Error	Display	Error	Judge
	0.00	4.00	0.064	4.010	-0.01%			PASS
	50.00	12.00	49.146	11.861	-0.02%			PASS
	100.00	20.00	99.018	19.841	-0.02%			PASS
	50.00	12.00	50.127	12.019	-0.01%			PASS
	0.00	4.00	0.000	3.999	-0.01%			PASS

Remarks

(Instrument)

Instrument	Model	Qnt.
CA700	91R610333	

(Configuration)

Standard	Control
P % I	D
Hi	Lo

Thank you for your attention.