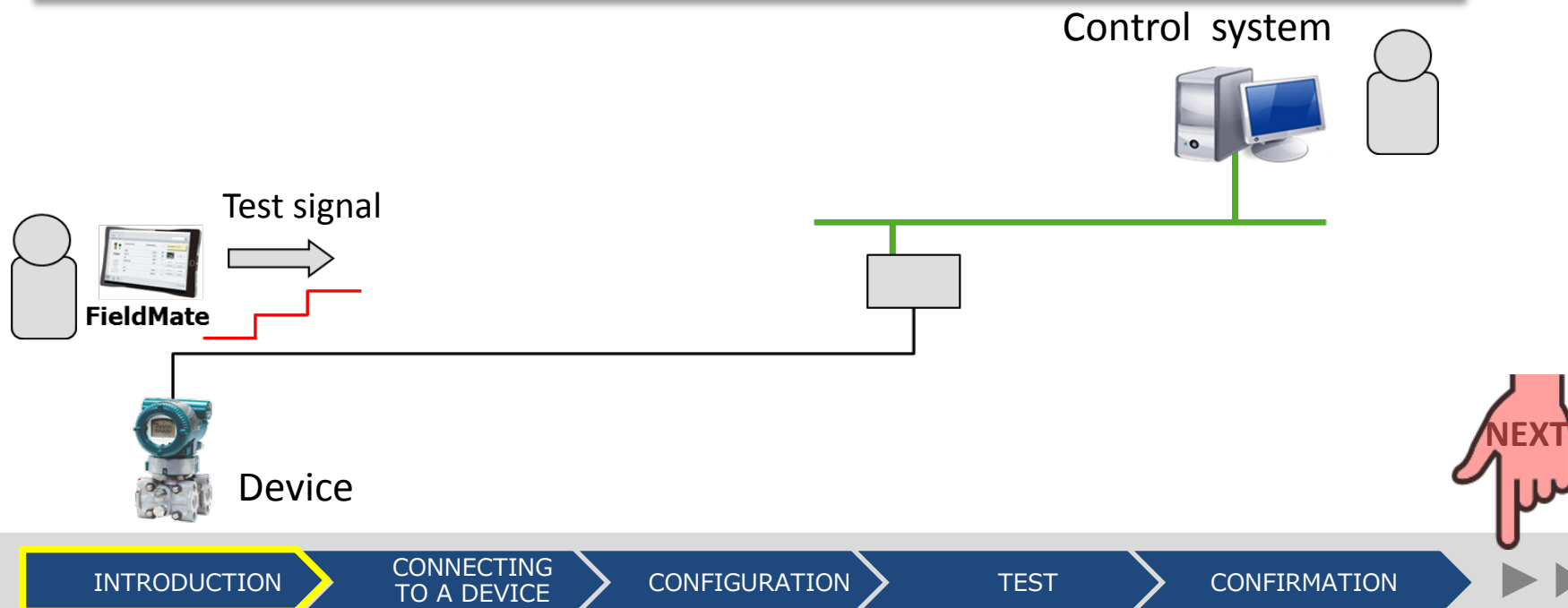


About Input Loop Check with FieldMate

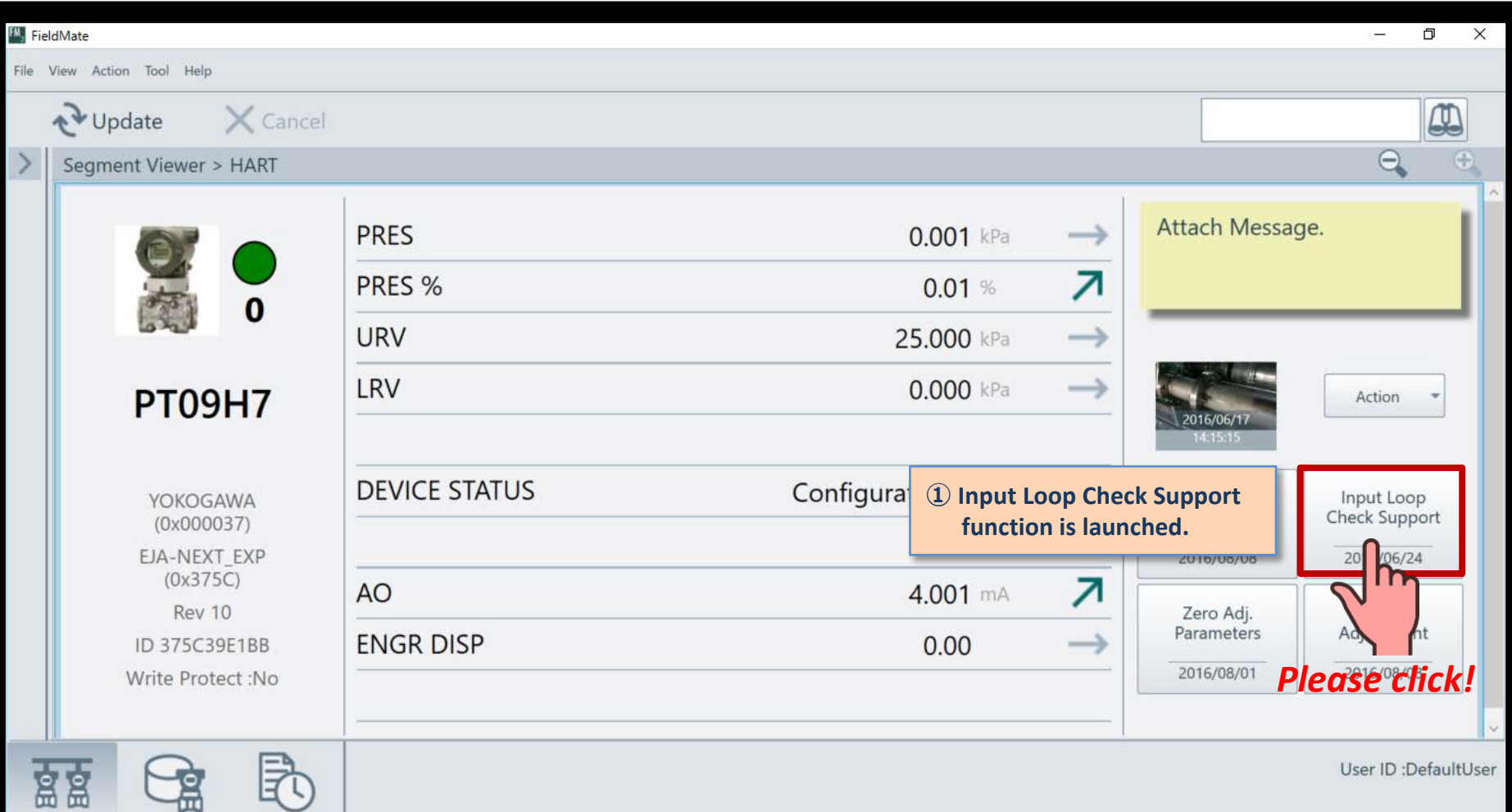
Input loop check verifies whether device signals are being received by the controllers and the control system .

Previously, depending on the device that was being tested, different procedures needed to be followed to perform this test.

Regardless of device model or make, all it takes with FieldMate is to click (touch) the Input Loop Check Support button to output a loop check signal from a device.



FieldMate connects and communicates with target device.



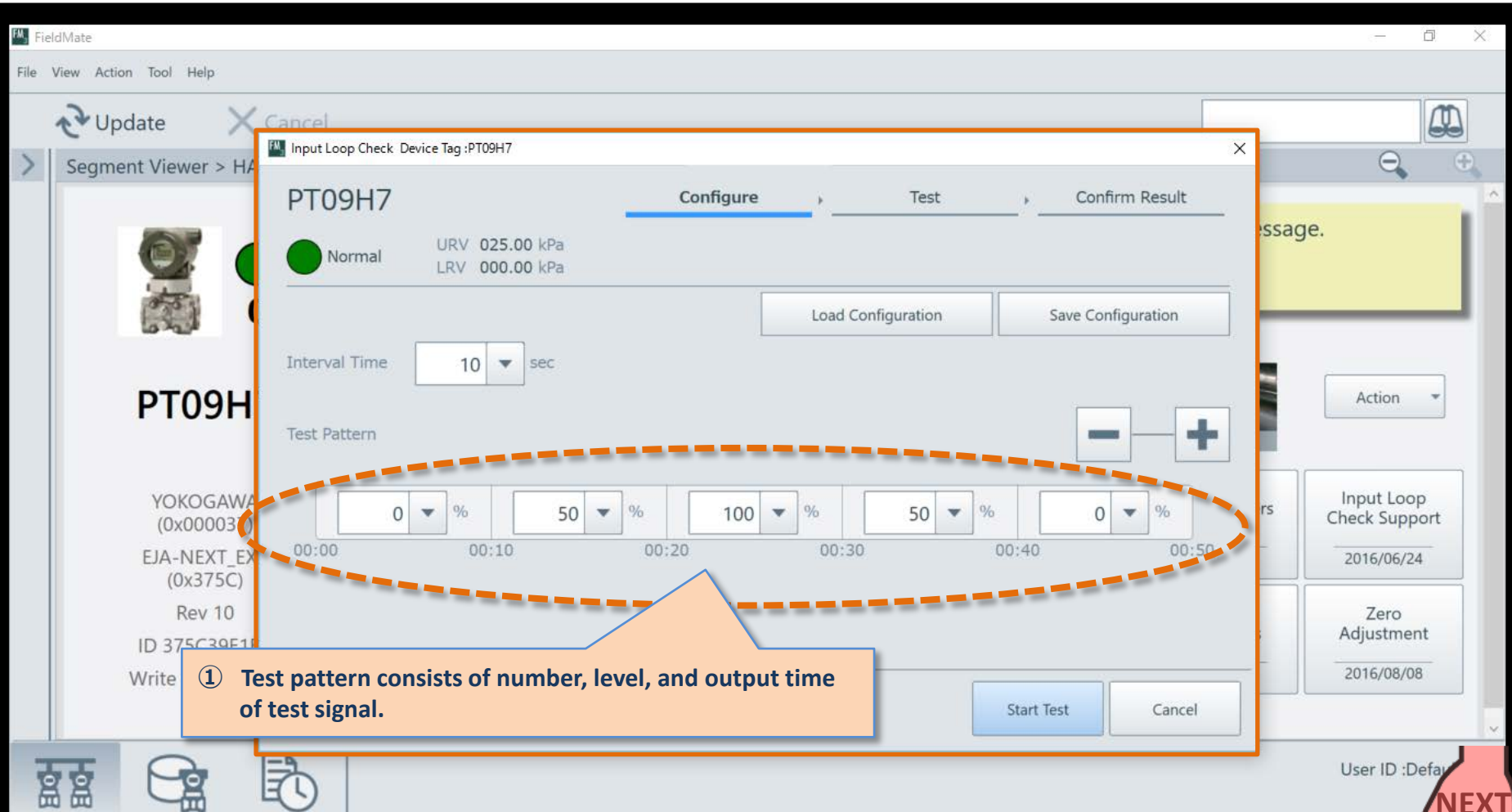
The screenshot shows the FieldMate software interface. The main window displays the configuration for a device labeled PT09H7. The device is a Yokogawa EJA-NEXT_EXP (0x375C) Rev 10, ID 375C39E1BB, with Write Protect :No. The configuration table shows the following parameters:

| Parameter | Value | Unit | Direction |
|---------------|--------|------|-----------|
| PRES | 0.001 | kPa | → |
| PRES % | 0.01 | % | ↗ |
| URV | 25.000 | kPa | → |
| LRV | 0.000 | kPa | → |
| DEVICE STATUS | | | |
| AO | 4.001 | mA | ↗ |
| ENGR DISP | 0.00 | | → |

On the right side, there is a yellow box labeled "Attach Message." and a small image of a device with the date 2016/06/17 and time 14:15:15. Below this, there is a red box highlighting the "Input Loop Check Support" button, with a hand icon pointing to it and the text "Please click!".

At the bottom of the interface, there is a navigation bar with the following steps: INTRODUCTION, CONNECTING TO A DEVICE (highlighted in yellow), CONFIGURATION, TEST, and CONFIRMATION. The User ID is DefaultUser.

Setting in Input Loop Check Support function.
The output signal can be set to the desired level to create a test pattern.



FieldMate

File View Action Tool Help

Update Cancel

Segment Viewer > HA

PT09H7

YOKOGAWA (0x00003)

EJA-NEXT_EX (0x375C)

Rev 10

ID 375C39E1

Write

Input Loop Check Device Tag :PT09H7

PT09H7

Normal

URV 025.00 kPa

LRV 000.00 kPa

Interval Time 10 sec

Test Pattern

0% 50% 100% 50% 0%

00:00 00:10 00:20 00:30 00:40 00:50

Load Configuration Save Configuration

Start Test Cancel

① Test pattern consists of number, level, and output time of test signal.

Input Loop Check Support

2016/06/24

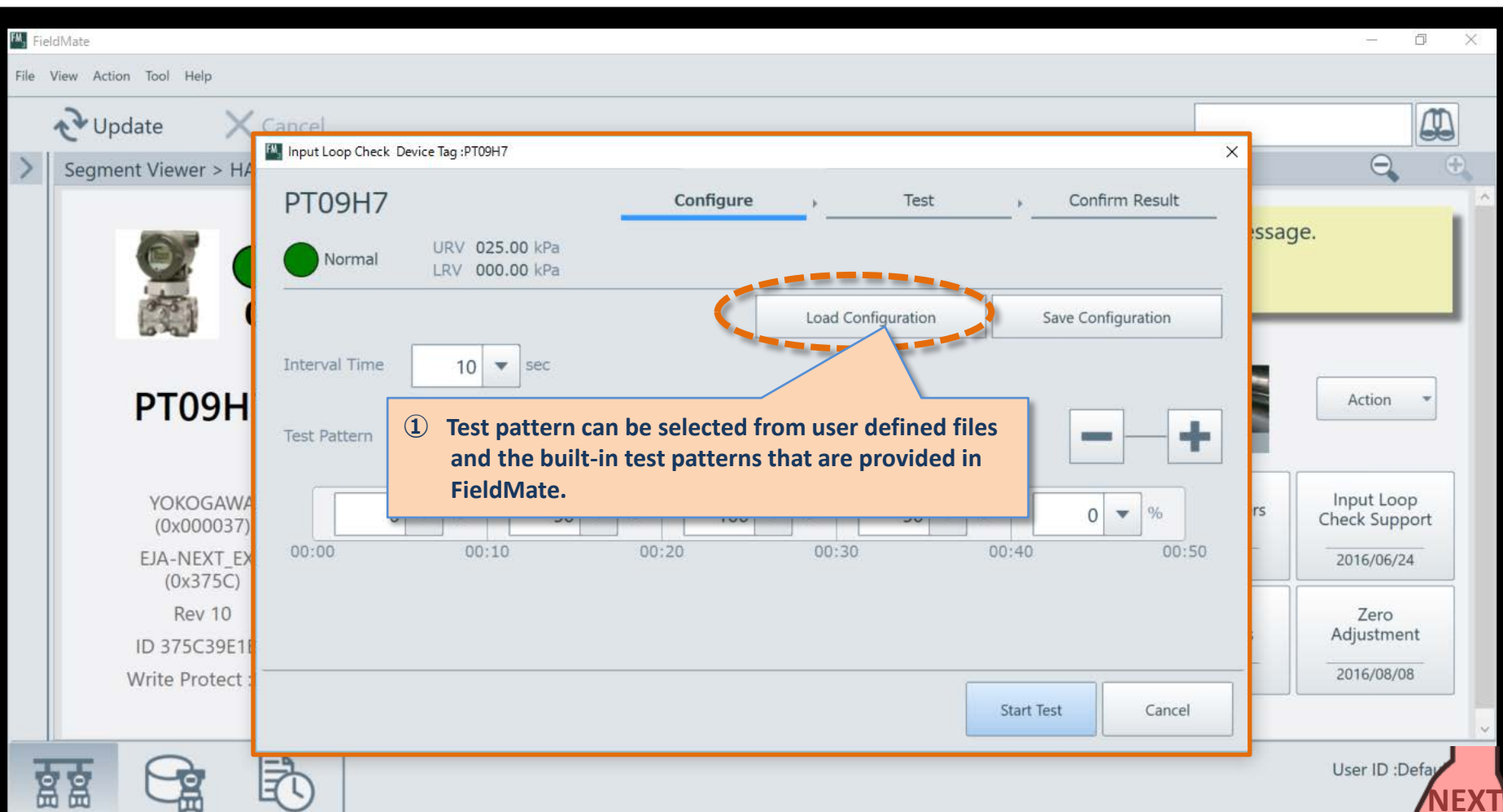
Zero Adjustment

2016/08/08

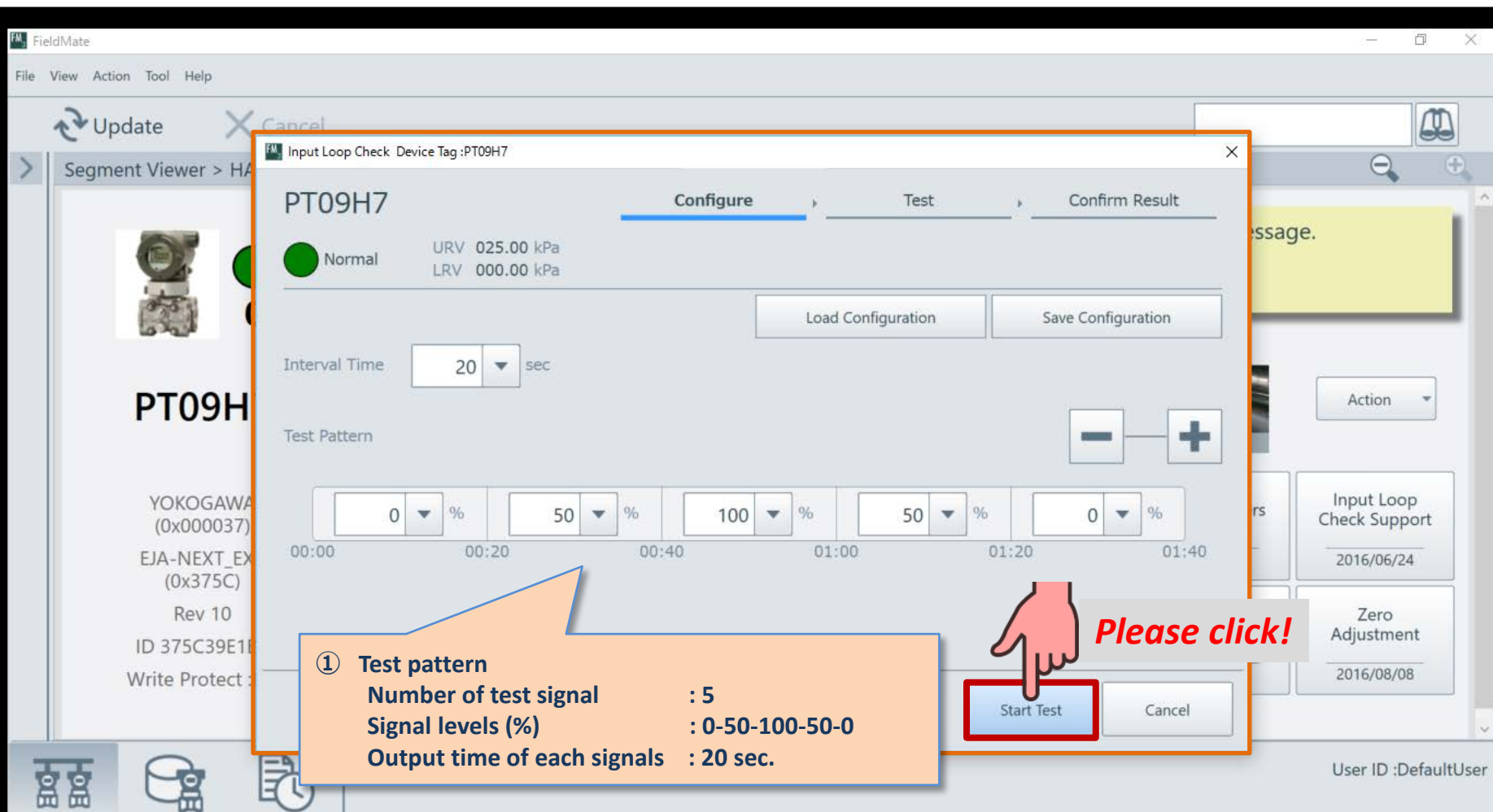
User ID :Defa

NEXT

Test pattern can be saved and retrieved.



Preparation of the test finished.



FieldMate

File View Action Tool Help

Update Cancel

Segment Viewer > HA

PT09H7

YOKOGAWA (0x000037)
EJA-NEXT_EX (0x375C)
Rev 10
ID 375C39E1
Write Protect

Input Loop Check Device Tag : PT09H7

PT09H7

Normal

URV 025.00 kPa
LRV 000.00 kPa

Interval Time 20 sec

Test Pattern

0 % 50 % 100 % 50 % 0 %

00:00 00:20 00:40 01:00 01:20 01:40

Load Configuration Save Configuration

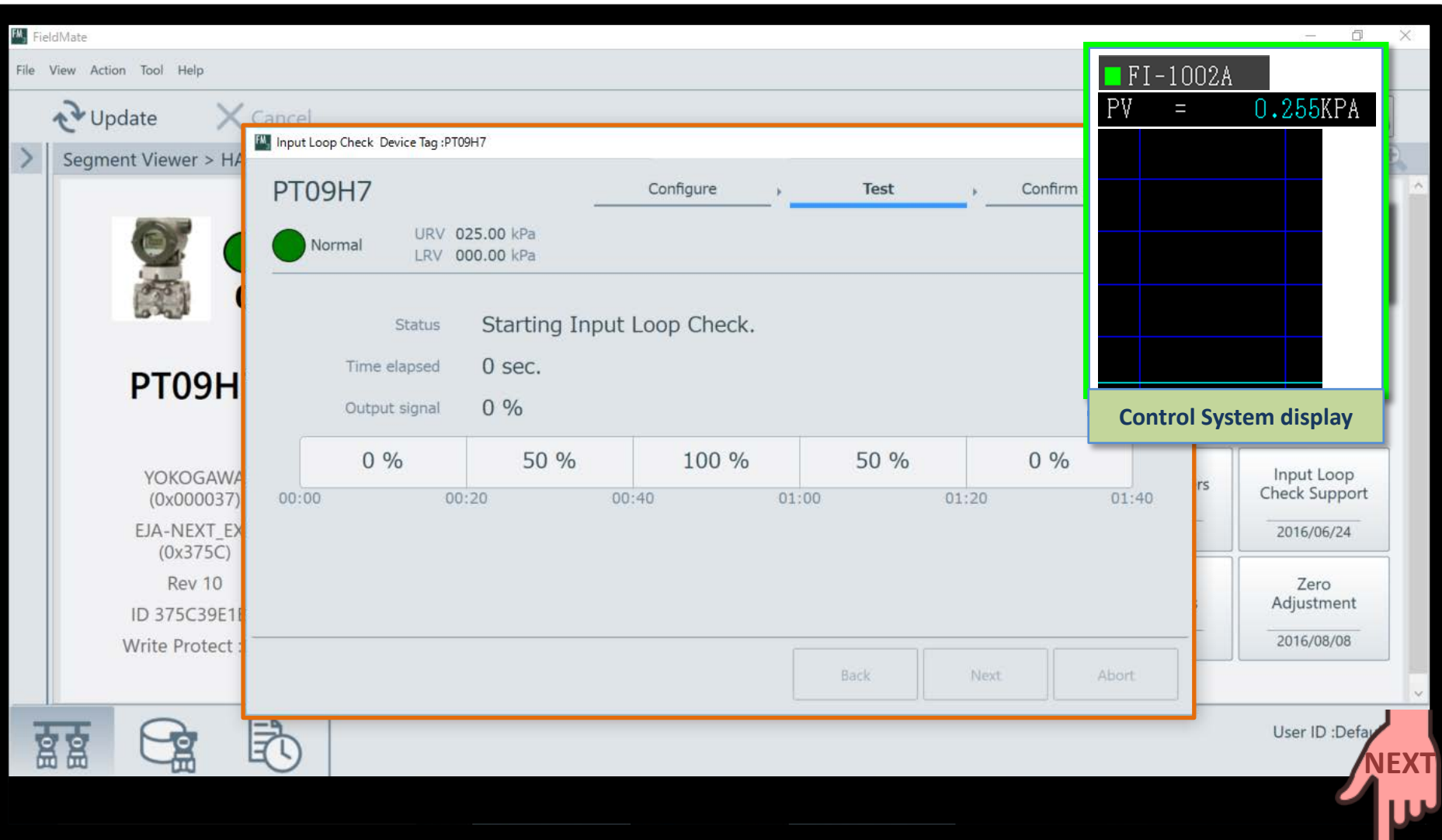
Start Test Cancel

① Test pattern
Number of test signal : 5
Signal levels (%) : 0-50-100-50-0
Output time of each signals : 20 sec.

Please click!

User ID : DefaultUser

Starting to output the test signal.



FieldMate

File View Action Tool Help

Update Cancel

Segment Viewer > HA

PT09H7

YOKOGAWA (0x000037)

EJA-NEXT_EX (0x375C)

Rev 10

ID 375C39E1

Write Protect

Input Loop Check Device Tag :PT09H7

PT09H7

Configure Test Confirm

Normal

URV 025.00 kPa

LRV 000.00 kPa

Status Starting Input Loop Check.

Time elapsed 0 sec.

Output signal 0 %

0 % 50 % 100 % 50 % 0 %

00:00 00:20 00:40 01:00 01:20 01:40

Back Next Abort

FI-1002A

PV = 0.255KPA

Control System display

Input Loop Check Support

2016/06/24

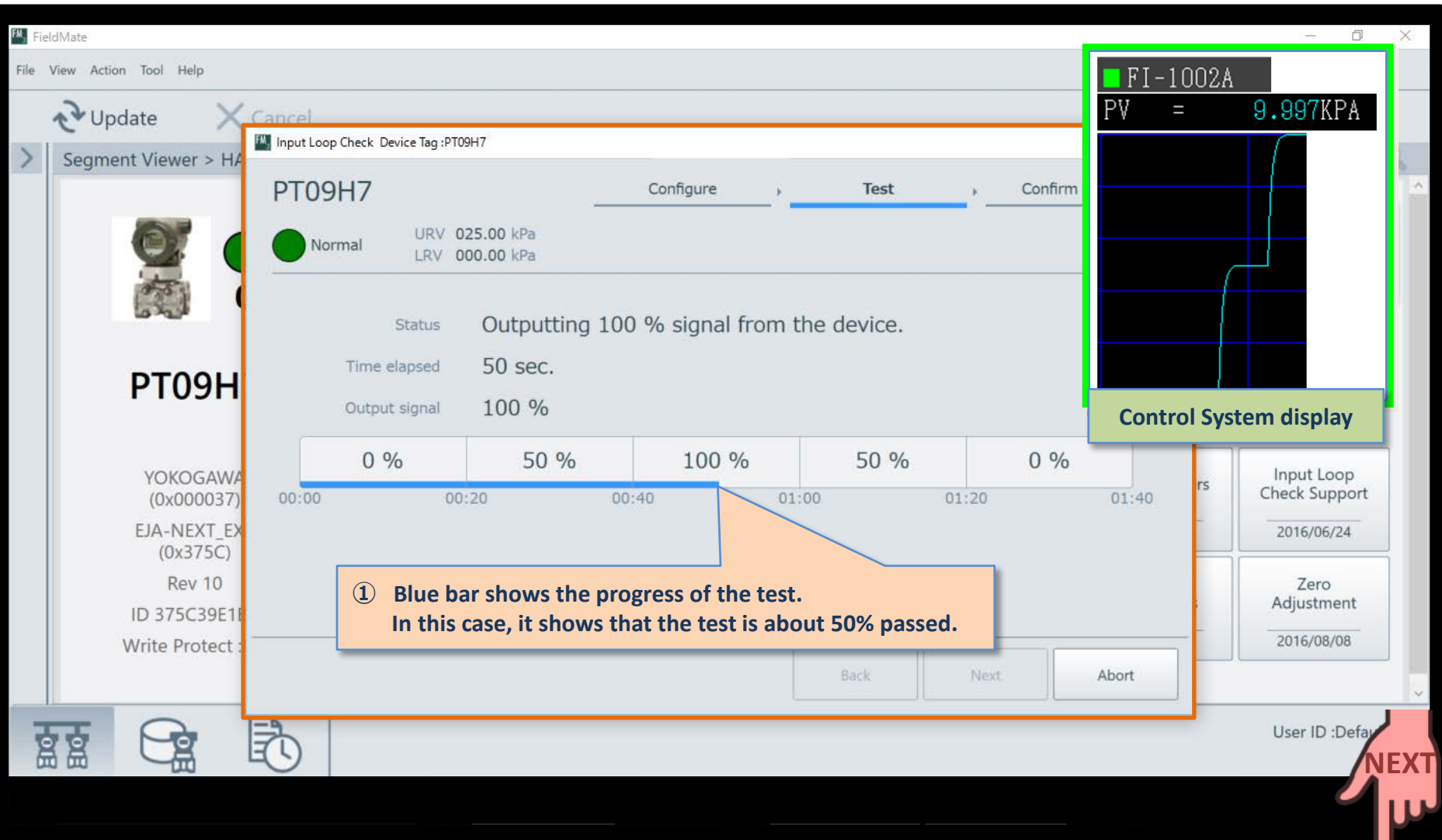
Zero Adjustment

2016/08/08

User ID :Defa

NEXT

Outputting the test signal.



The screenshot displays the FieldMate software interface during an Input Loop Check for device PT09H7. The interface is divided into several sections:

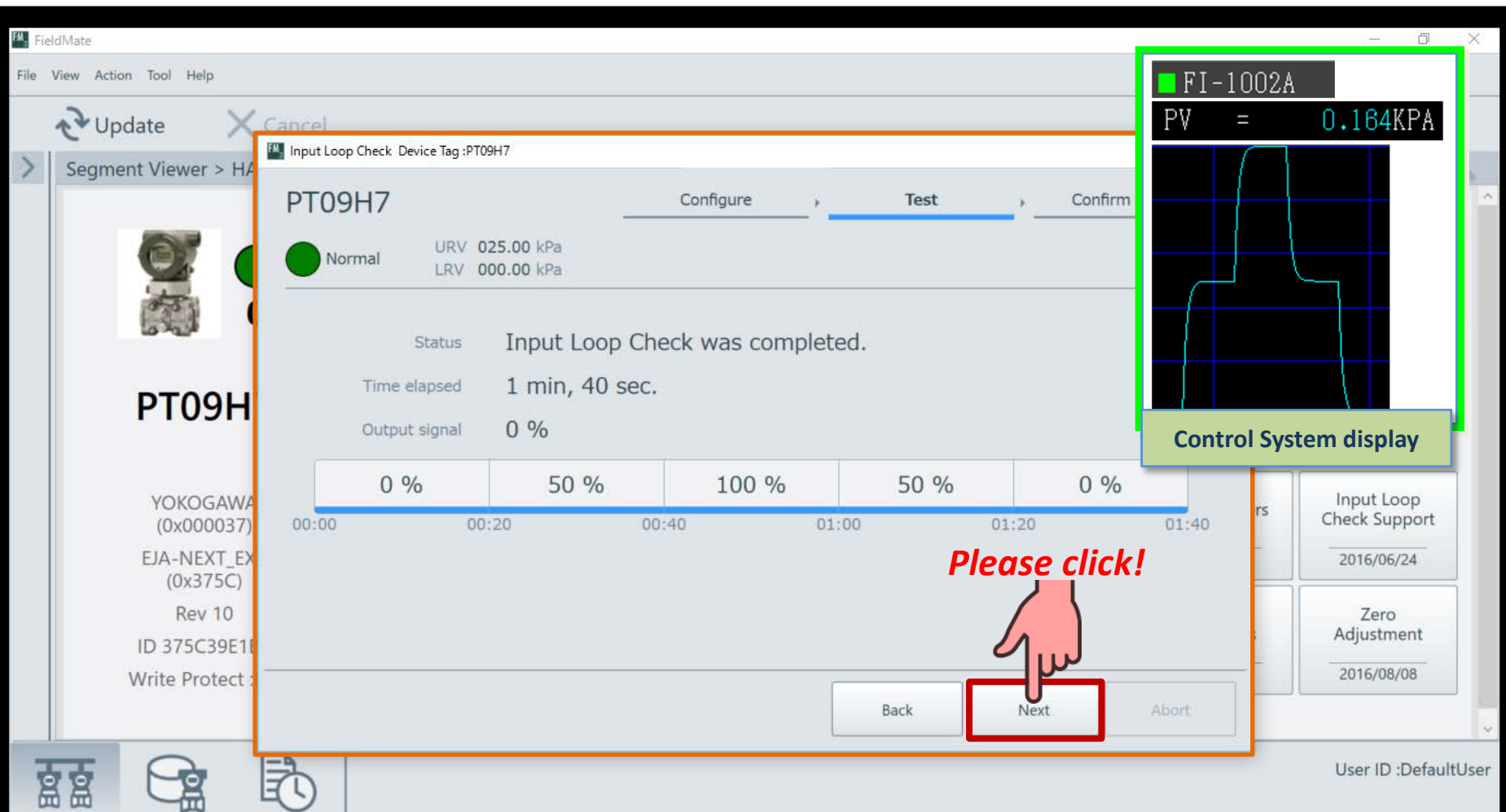
- Header:** FieldMate logo and menu (File, View, Action, Tool, Help).
- Segment Viewer:** Shows the device PT09H7 and its configuration details (YOKOGAWA, EJA-NEXT_EX, Rev 10, ID 375C39E1).
- Input Loop Check Device Tag: PT09H7:** The main section showing the test progress. It includes a status bar with a green circle and the word "Normal". The status is "Outputting 100 % signal from the device." The time elapsed is 50 sec. The output signal is 100 %.
- Progress Bar:** A horizontal bar showing the test progress. It is divided into segments labeled 0 %, 50 %, 100 %, 50 %, and 0 %. A blue bar indicates the current progress, which is approximately 50%.
- Control System display:** A window showing the process variable (PV) for FI-1002A, which is 9.997KPA. It also displays a graph of the signal over time.
- Buttons:** Back, Next, and Abort buttons are visible at the bottom.

Annotations:

- Control System display:** A green box highlights the PV value and the graph.
- Blue bar shows the progress of the test. In this case, it shows that the test is about 50% passed.** An orange callout box points to the blue bar on the progress bar.

Next Step: A red hand icon with the word "NEXT" points to the "Next" button.

Outputting test signal finished.



FieldMate

File View Action Tool Help

Update Cancel

Segment Viewer > HA

PT09H7

YOKOGAWA (0x000037)

EJA-NEXT_EX (0x375C)

Rev 10

ID 375C39E1

Write Protect

Input Loop Check Device Tag: PT09H7

PT09H7

Configure Test Confirm

Normal

URV 025.00 kPa

LRV 000.00 kPa

Status Input Loop Check was completed.

Time elapsed 1 min, 40 sec.

Output signal 0 %

0 % 50 % 100 % 50 % 0 %

00:00 00:20 00:40 01:00 01:20 01:40

Back Next Abort

Please click!

Control System display

FI-1002A

PV = 0.164KPA

Input Loop Check Support

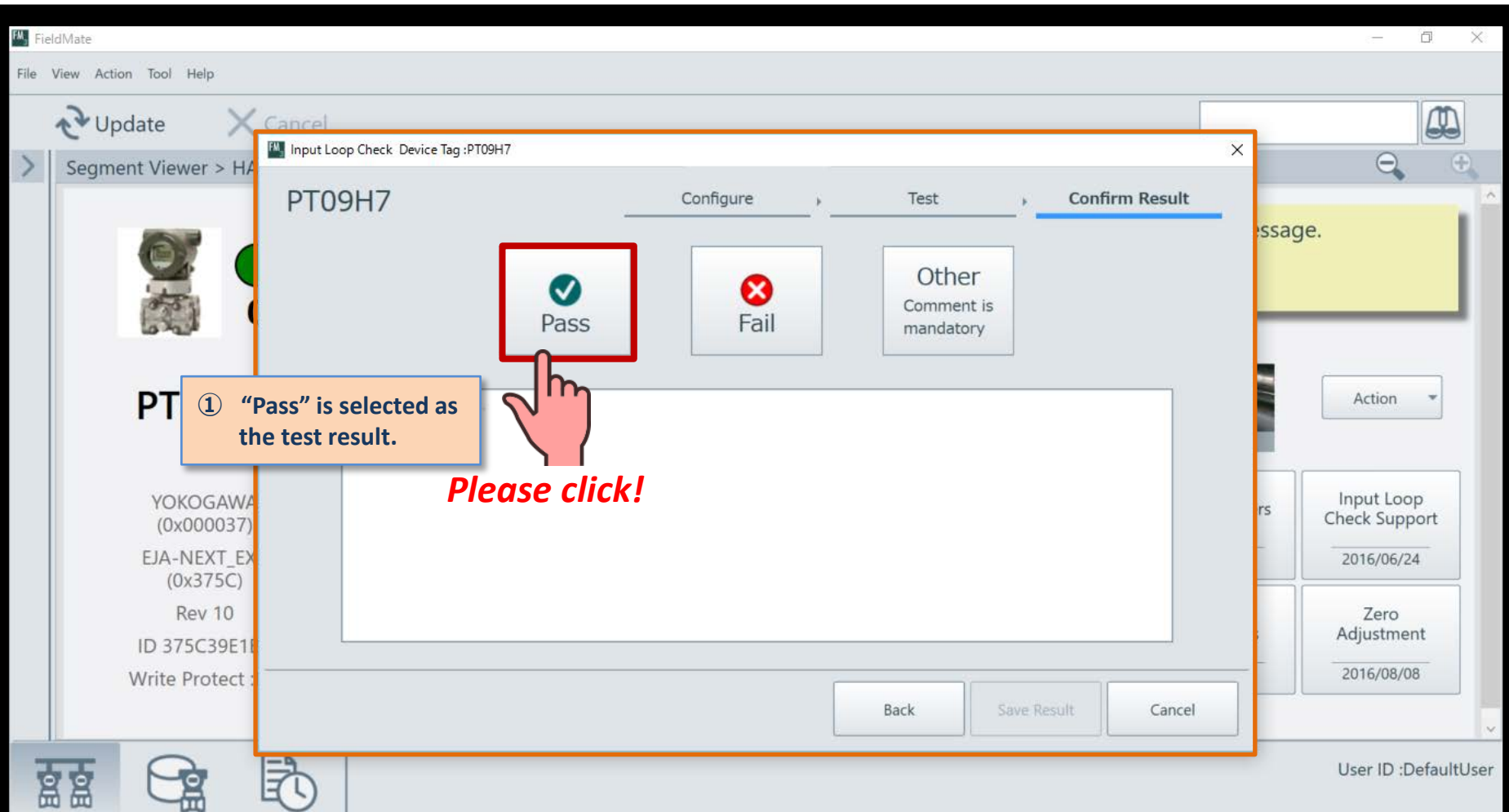
2016/06/24

Zero Adjustment

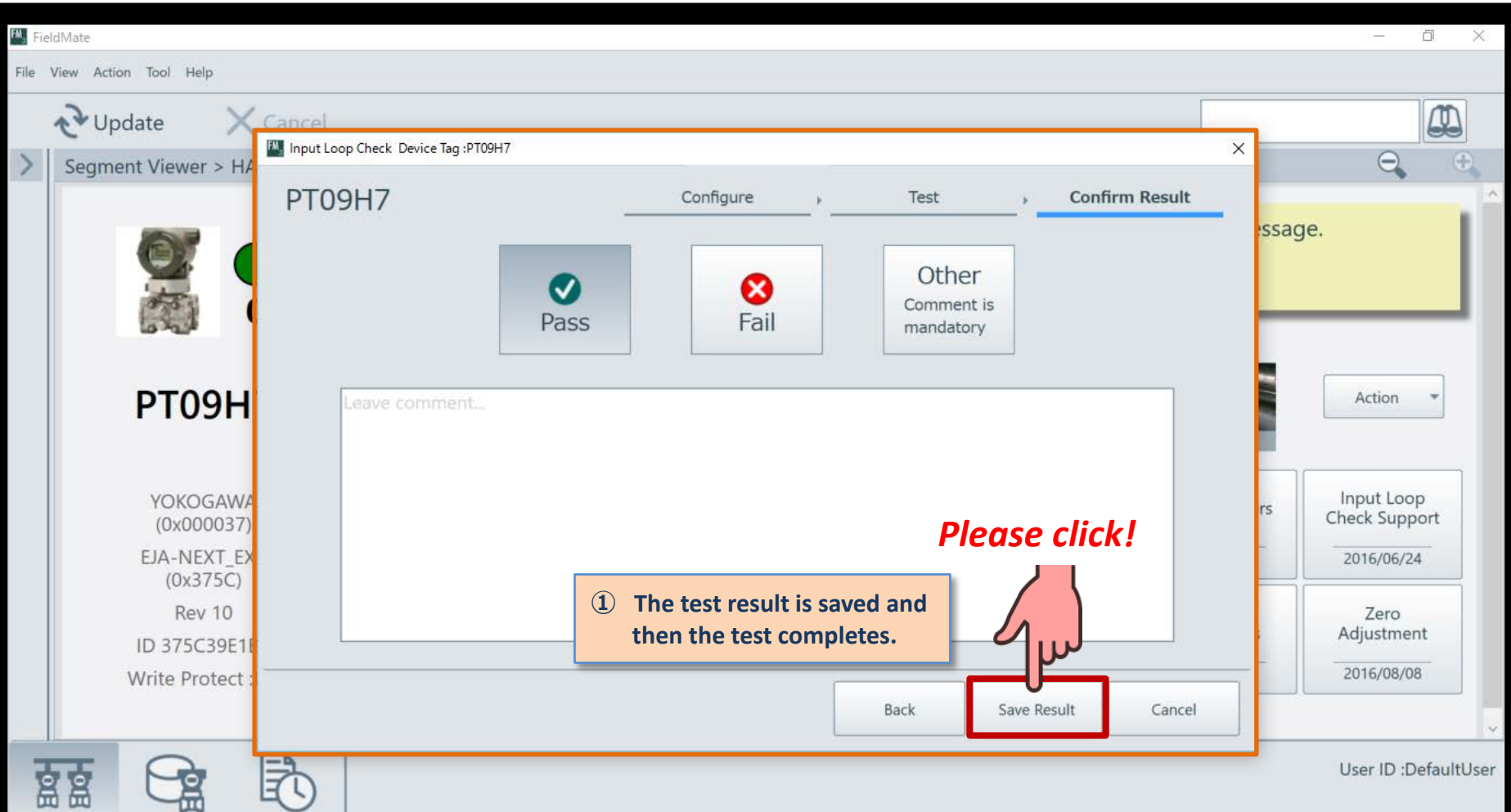
2016/08/08

User ID:DefaultUser

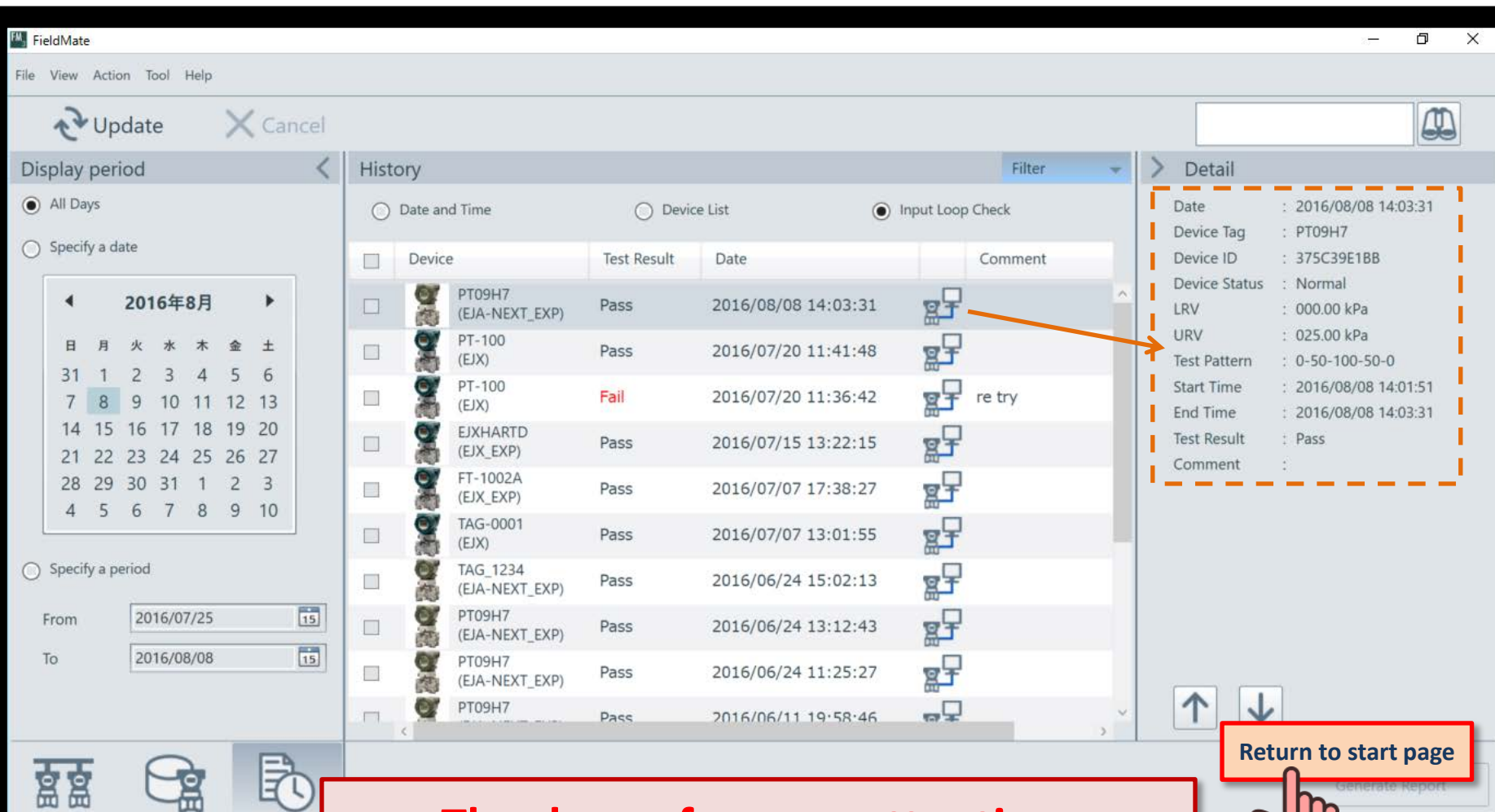
Input Loop Check finished.
Control system person judges that this test is “Pass”.



The test result is saved.



The saved test results can be confirmed and output as report .



The screenshot displays the FieldMate software interface. The main window is divided into several sections:

- Display period:** Includes radio buttons for "All Days" (selected) and "Specify a date". A calendar for August 2016 is shown, with the 8th highlighted. Below the calendar, there are input fields for "From" (2016/07/25) and "To" (2016/08/08).
- History:** A table showing test results. The "Input Loop Check" radio button is selected. The table has columns for Device, Test Result, Date, and Comment.
- Detail:** A panel on the right showing details for the selected test entry (PT09H7 (EJA-NEXT_EXP) on 2016/08/08 at 14:03:31). The details include Date, Device Tag, Device ID, Device Status, LRV, URV, Test Pattern, Start Time, End Time, Test Result (Pass), and Comment.

An orange arrow points from the "re try" comment in the History table to the "Test Pattern" field in the Detail panel. A red box highlights the "Return to start page" button at the bottom right, with a hand icon pointing to it.

| Device | Test Result | Date | Comment |
|-------------------------|-------------|---------------------|---------|
| PT09H7 (EJA-NEXT_EXP) | Pass | 2016/08/08 14:03:31 | |
| PT-100 (EJX) | Pass | 2016/07/20 11:41:48 | |
| PT-100 (EJX) | Fail | 2016/07/20 11:36:42 | re try |
| EJXHARTD (EJX_EXP) | Pass | 2016/07/15 13:22:15 | |
| FT-1002A (EJX_EXP) | Pass | 2016/07/07 17:38:27 | |
| TAG-0001 (EJX) | Pass | 2016/07/07 13:01:55 | |
| TAG_1234 (EJA-NEXT_EXP) | Pass | 2016/06/24 15:02:13 | |
| PT09H7 (EJA-NEXT_EXP) | Pass | 2016/06/24 13:12:43 | |
| PT09H7 (EJA-NEXT_EXP) | Pass | 2016/06/24 11:25:27 | |
| PT09H7 | Pass | 2016/06/11 19:58:46 | |

Detail:

- Date : 2016/08/08 14:03:31
- Device Tag : PT09H7
- Device ID : 375C39E18B
- Device Status : Normal
- LRV : 000.00 kPa
- URV : 025.00 kPa
- Test Pattern : 0-50-100-50-0
- Start Time : 2016/08/08 14:01:51
- End Time : 2016/08/08 14:03:31
- Test Result : Pass
- Comment :

Return to start page

Thank you for your attention.