MXK8000S

User manual

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Specification

Main power supply

Input Power	AC 110V or 220V/50~60Hz (Optional)
Output Power	24V/10A, 5V/4A(Default)

Battery

Capacity	**24V/18Ah** (Lead Acid battery)

UI Specification

Size	17- inch TFT LCD Panel
Resolution	1280×1024
Touch	Resistance method

Housing type

Basic	Stand-alone 600×600×2000
Option	19- inch standard RACK
	Metal plate

Capacity

Panel	32 connections among panels
Transponder	32 MXK1000T connections per panel
Loop	2 Loops per Loop Card
RELAYER	250 per MXK Loop 127 per MXK-NU Loop
Circuit	4 circuits per MXK44 2 circuits per MXK22
Maximum number of circuits	32 panels x 32 transponders x 4 loops x 250 addresses x 4 circuits = 4,096,000 circuits
Minimum number of circuits	1 panel x 1 transponder x 2 loops x 250 addresses x 4 circuits = 2000 circuits

Printer

Basic	Compact serial printer (RS-232C) 40 columns(English), 20 columns(Korean)

Key & LED (OCSM)

System Control Keys	5
Equipment Control Programmable Keys	16
System LEDs	15
Equipment Status Programmable LEDs	16

Configuration tool

MXK Consys	All configurations of the MXK system can be programmed with this tool

BMS protocol

Emergency broadcasting , BMS etc.	RS-485 communication port makes a connection with external emergency broadcasting system

Workstation.

MuxGraphics	Connected using an Ethernet port

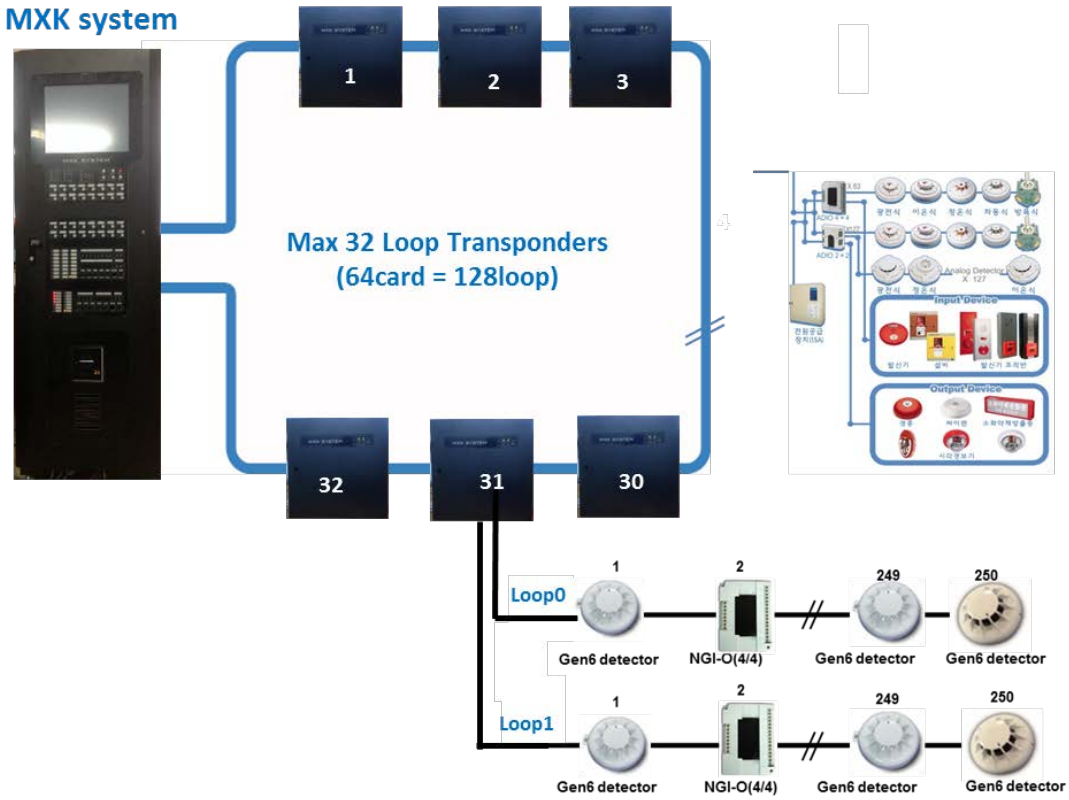
Communication port

No	Method	Purpose
1	Ethernet	LAN1(J2): SFC800, Hub Workstation
2	RS-232C	Port2 (CON4): Serial Printer
3	RS-485	Port1 (CON12): Rack Communications, Transponder Normal. Back, Emergency Broadcast, Network normal & back
4	RS-422	Port1 (CON13): Parallel
5	SATA	Port1(J4): Hard disk for recording
6	USB	USBPort1~4(CON2A~D): Map Down/Upload, Firmware Upgrade

Call points & Telephone response.

Call points, Telephone	Connected to the panel MTIB board with a line

System Configuration



Initialization screen

This screen shows the process of initializing the system after the initial power is applied to the panel. Before booting, if USB is connected to the MCM board, the system is automatically updated with files in the specified directory (top:₩mxk8000). As the updates finishes, the booting starts.

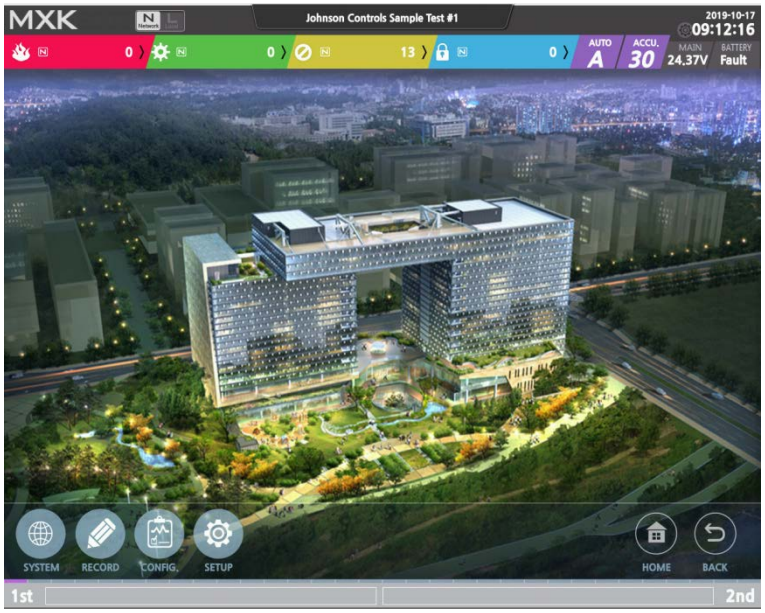
On the background of this screen, initializing system including hardware investigation, data updates, and analysis of files related to system operation, configuration check, and process preparation is under process.

If an error occurs, the initialization process is not continued and stops with the frozen screen. In this case, you must reboot the panel manually.

Normal screen

✓ Initial screen

Overview



This is the initial screen that is displayed at the end of the initializing screen. Touching the area of the number of events at the top of the screen shows up to 10 latest records of corresponding events. Auto-Restoration/Latched mode is displayed on the right side of the event area and the mode can be changed by touching the mode area.

You will see non-accumulation/accumulation on the right, and touching the area changes the setting.

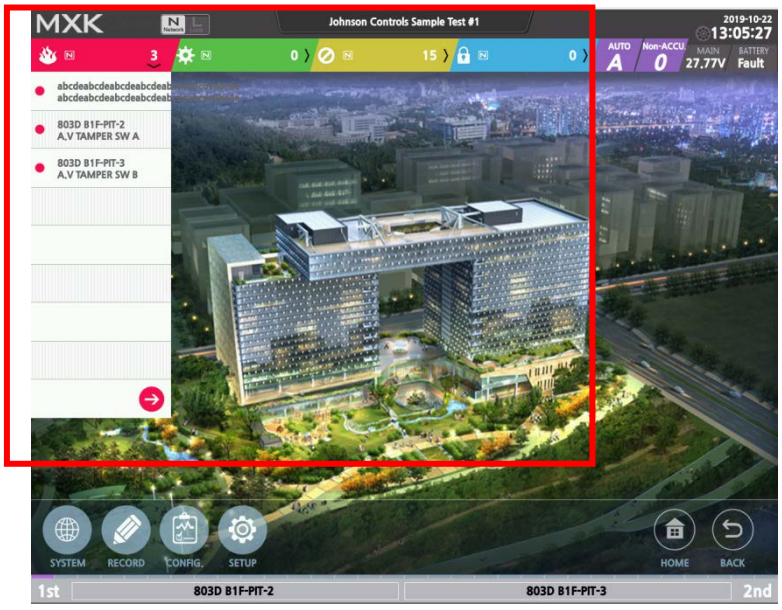
The main/battery voltage is displayed and time is presented at the upper right side of the screen. Touching the time area shows a new screen to set the time. Touching the menu located at the lower area of the screen navigates to a corresponding screen.

At the bottom of the screen, there is a purple dotted line or a green solid line. You can check the synchronization of the equipment key among panels on a network. Below the line, you can see 1st and 2nd fire.

Normal screen

✓ Initial screen

Event Preview



Touching the event area at the top of a screen shows the screen above. Touching it once again makes the screen to disappear.

Touching → arrow on the lower side of the sub area goes to a Record screen for more detailed information about the event. The record screen shows retrieved results with the selected conditions for the location with each event. Events of equipment and trouble are the same.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Initial screen

Quick Setup

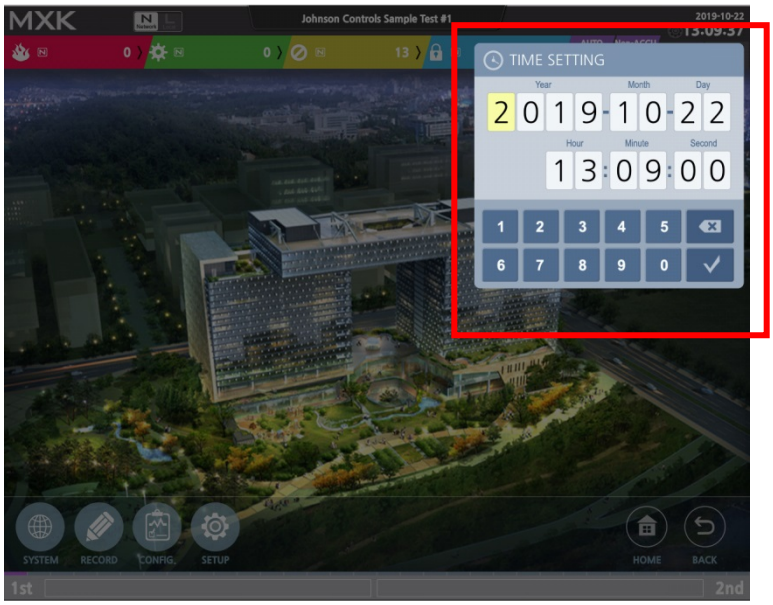
Touching the Auto-Restoration/Latched mode area displays the sub area to set the mode. Touching a desired setting (Auto-Restoration or Latched mode) from the sub setting area and then touching the lower setting button shows a pop-up window to confirm the mode. Touching "Apply" completes the mode setting. When the Non-accumulation/Accumulation area is touched on the initial screen, its sub area is displayed. The sub area indicates the accumulation time and if the time is set to 0, the system becomes in non-accumulation mode. Finally, when you touch the lower setting button, a pop-up window to confirm the setting appears. Touching "Apply" completes to apply the change in the mode.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Initial screen

Quick Setup



Touching the time area at the right side of the initial screen presents a sub menu to set a time as above. If you set the time, all of the panels on a network have its time synchronized with your panel.

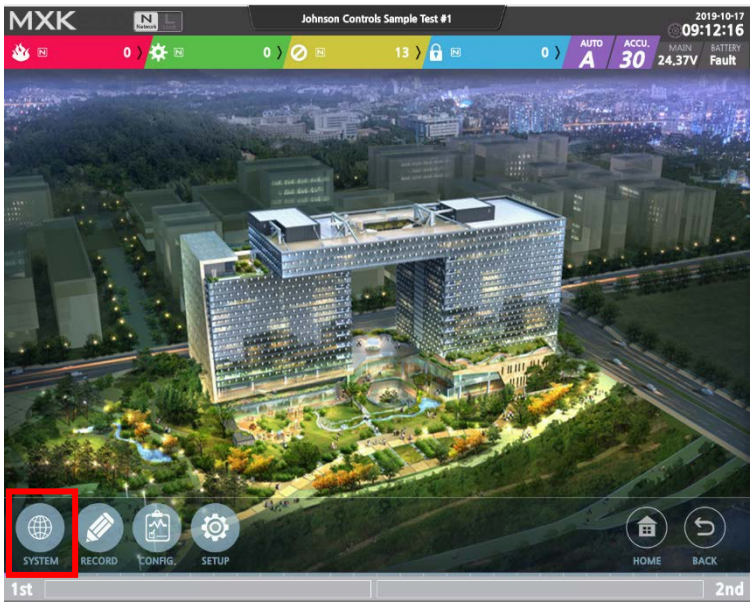
Time is one of important information for a use to record the occurrence time of all events in the panel. Please, be cautious about the time setting.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ System

Overview



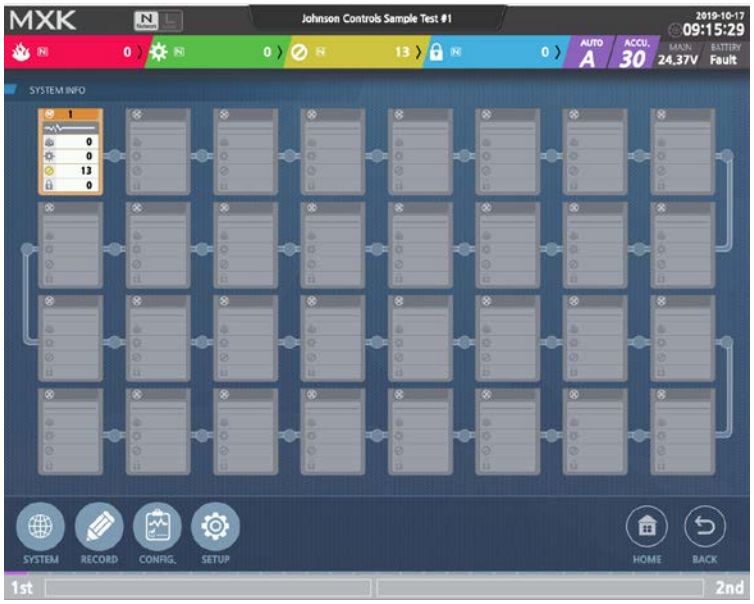
Touching the system menu at the bottom of the screen, a screen on the next page will appear: This menu allows you to check the states of the panels linked to the system, the transponders connected to the panels, and the I/O modules connected to the transponders. You can check the current states like faults, fires, etc. and go to the menu to conduct forced input/output tests.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ System

Network Status



This screen appears when you touch on the system menu. It displays the state of each panel connected to the network as above. You can see the number of events on each corresponding panel.

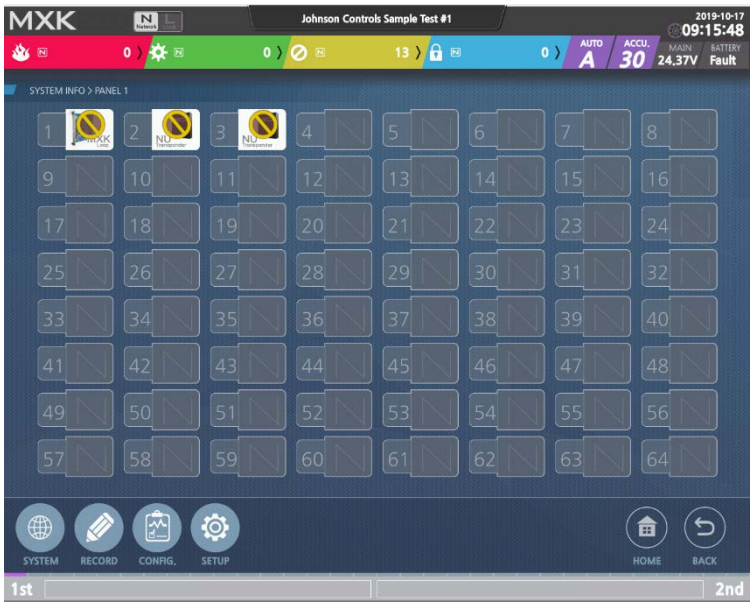
Up to 32 panels can be networked and each panel can connect up to 32 transponders (based on MXK1000T). In order to see the state of connected transponders, you should touch the panel image. Then, Touch the Detailed View button on the screen to move on.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ System

Panel State



This screen appears when you touch Detailed View in the sub menu of each panel image on the screen on the previous page. It displays the status of the transponder connected to the panel as shown above.

If a transponder is set up, an image of the transponder is displayed to present the number and type

There are 7 types of transponders (1 to 7), and if other types are set up, then the image of 8 is shown. Depending on the communication, a trouble can be displayed like the image of 1.

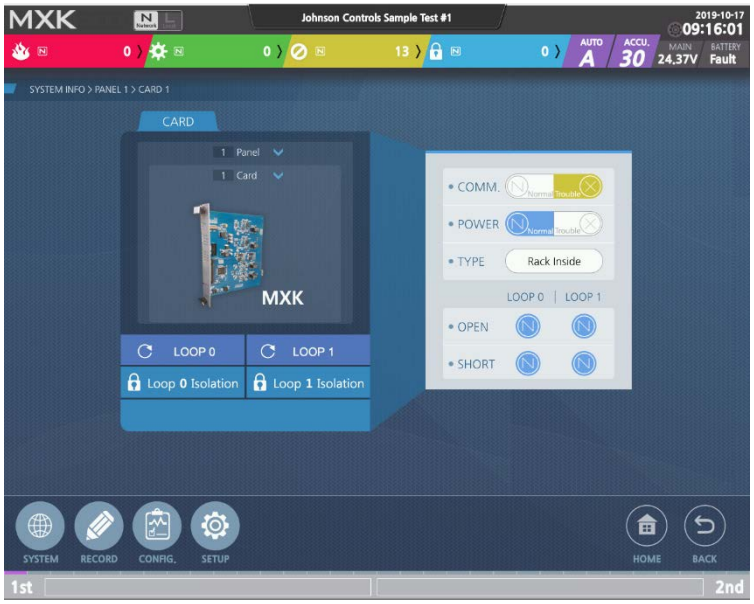
On this screen, if you want to see the status of the transponder, touch the image of the corresponding transponder.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ System State

Transponder State



The screen appears when you touch the image of a transponder (Card1, Card2) in the Detailed View of the System. It displays the current status of a transponder.

The status of the transponder shows states of communication/power/type and the information like an open or short circuit of each loop.

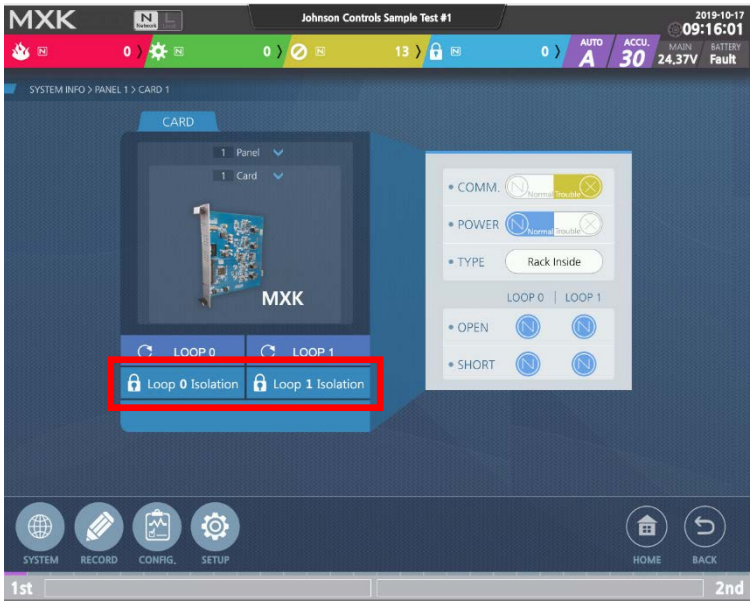
When you want to isolate a circuit by loop that is connected to the desired transponder, touch the circuit isolation button.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

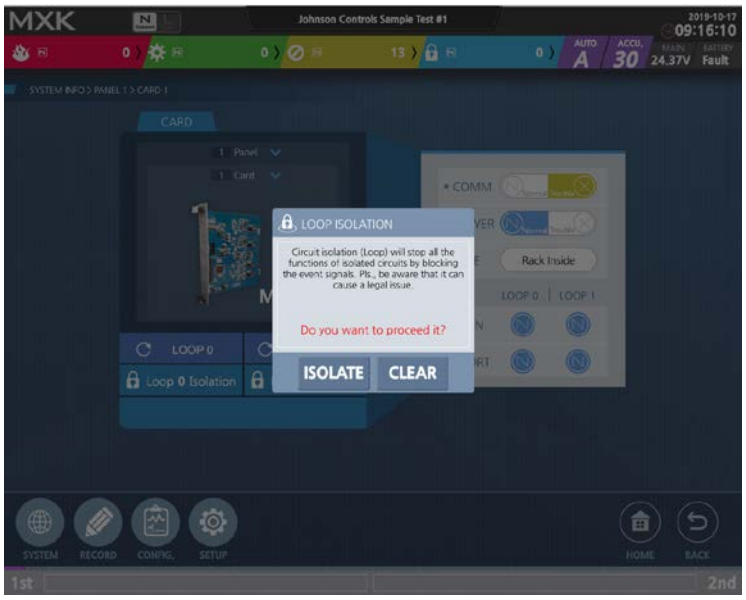
Normal screen

✓ System State

Warning and confirmation about circuit isolation of transponder



The buttons in the red square are used to isolate circuits by loop. Touch Loop 0 isolation and see a warning message as shown below.



Touching Isolate will block the loop 0 and the square of the Loop 0 changes to have a yellow rim on the next screen.

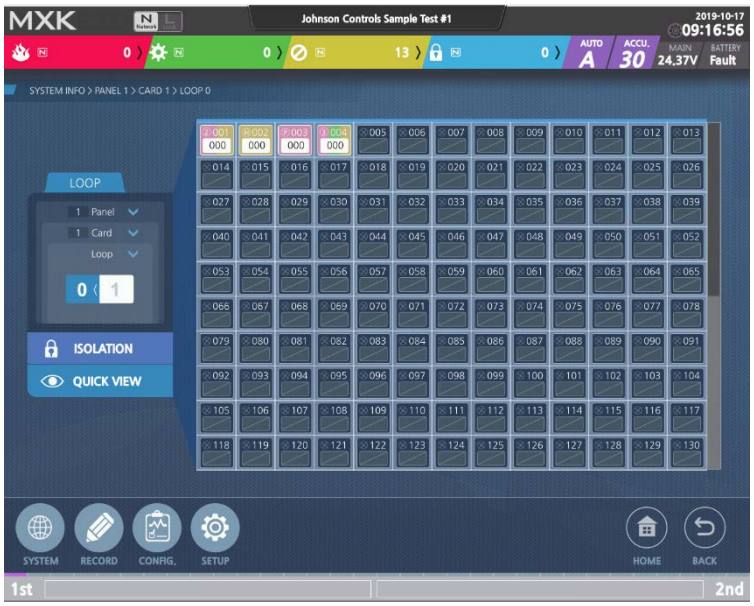
To clear it, touch the clear button on the previous window of the above process.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ System State

State of Connected Equipment



Touching the icons of LOOP 0 and LOOP 1 on the card (Transponder) Statue view shows the screen above. The current screen shows the type and status of devices connected to LOOP1 of 01 transponder.

The types of devices connected to the LOOP are classified in color and there are 3 states of the device. (Legend shows communication failure, type trouble, and no connection).

An analog detector is connected and the icon of each device presents an address, and analog value.

To switch to another loop on the screen, simply touch the loop area on the left side. Also, touching the circuit isolation button isolates multiple I/O modules all together. Touching Quick View button shows the states of all transponders at one view.

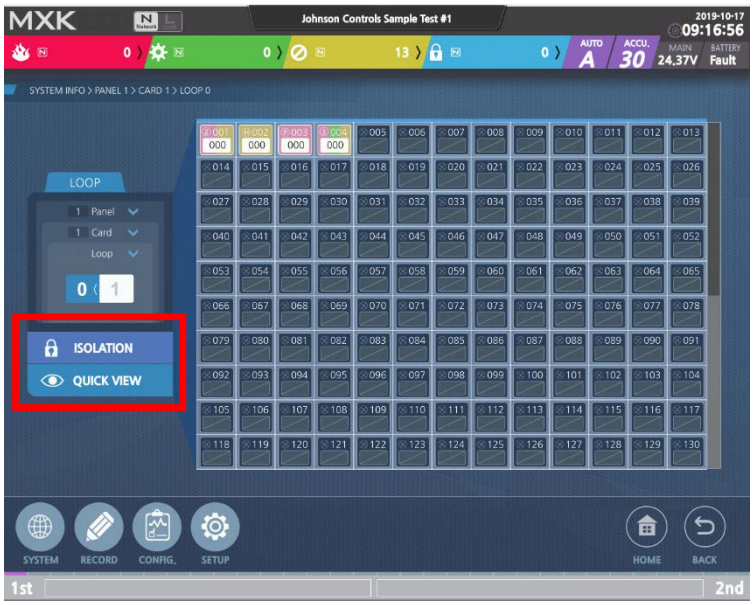
If you want to check the status of each device, touch the icon of the desired device.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ System State

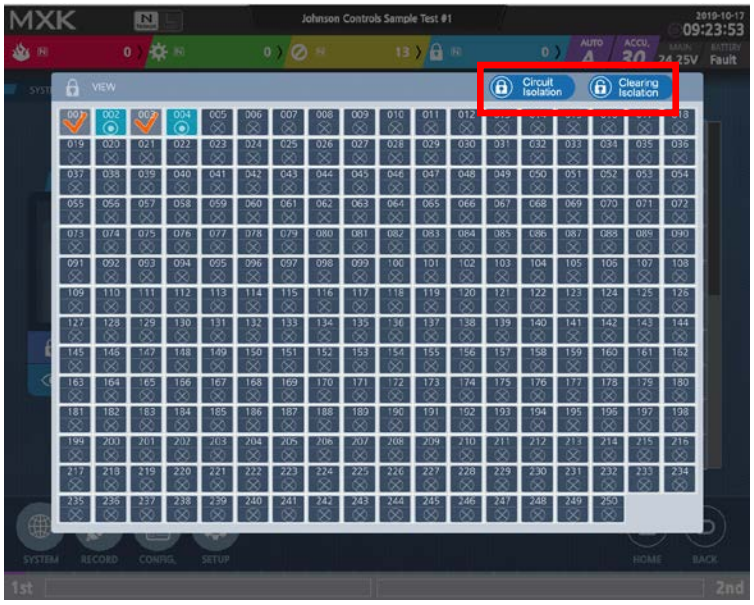
Circuit Isolation by I/O Module



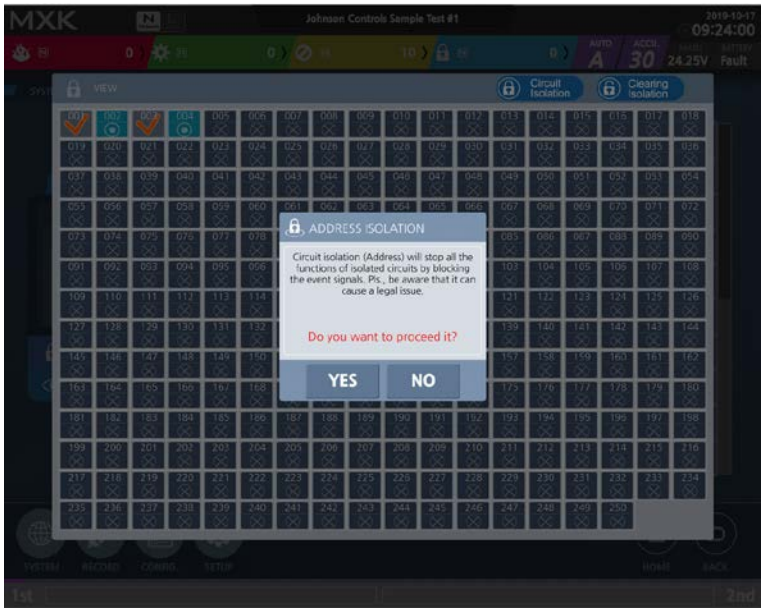
Touching the circuit isolation button in the red square shows a screen as below.

Devices connected to the loop are colored in blue, and devices not connected are in black.

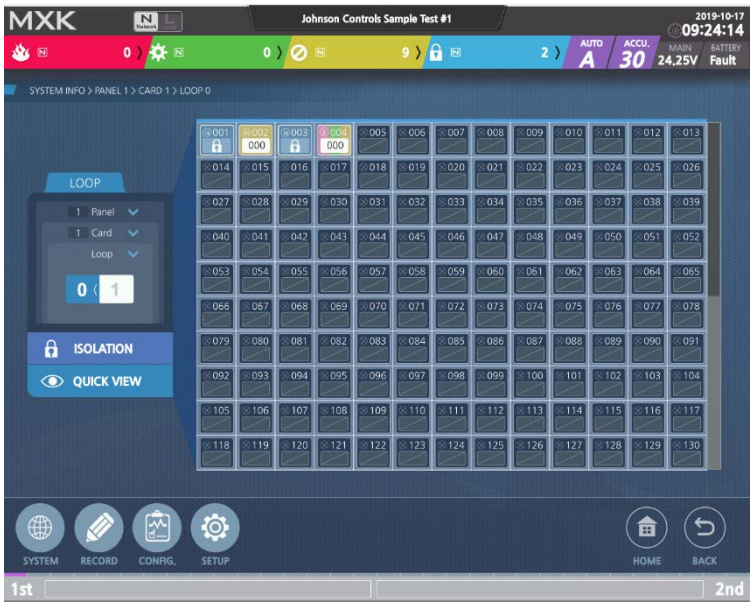
Just select the device number you desire to isolate the circuit. Devices are multi-selectable but disconnected devices cannot be selectable.



The selected devices have a check mark (√), and Touching the Circuit Isolation or Clearing Isolation button in the red square. When you select Circuit Isolation, the following screen appears:



Once the circuit isolation is completed, you can check the state of circuit isolated I/O modules.

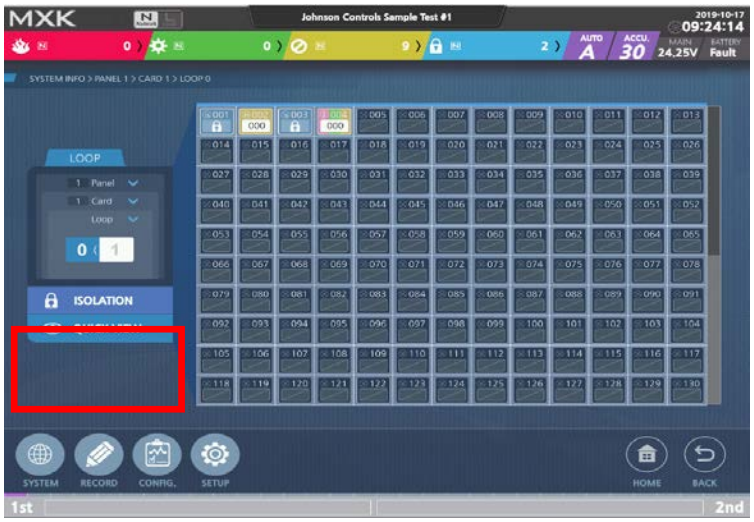


Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

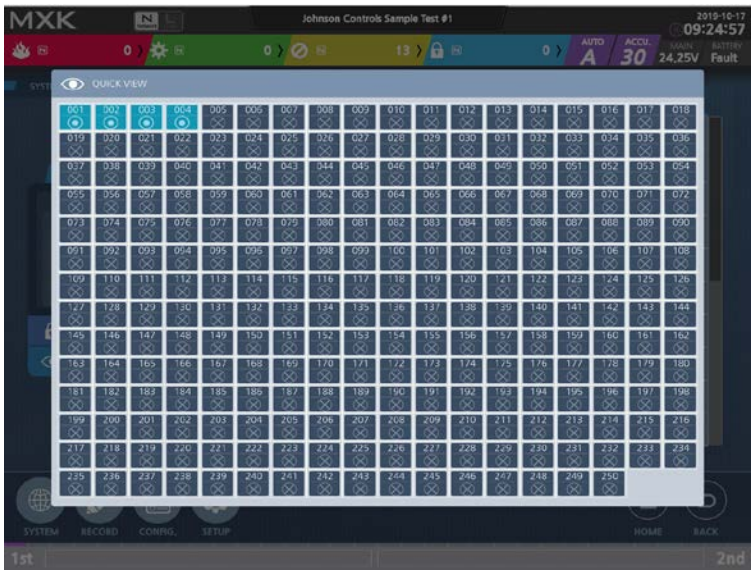
Normal screen

✓ System State

I/O modules at quick view



There are too many I/O modules to be displayed on the screen. In order to see the states of all the I/O modules, the system supports a screen as below.



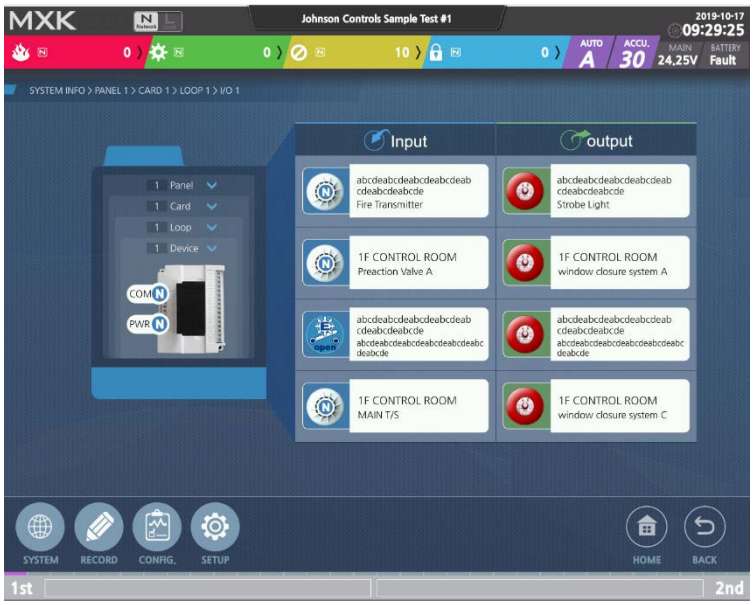
The screen helps you to check the status of all devices connected to the loop.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Panel State

Status of MXK2x2 I/O module (Same as NU22/44)



This screen appears to show the state of MXK22 I/O module when you touch a device (the icon of I/O module) on the loop information screen.

The screen shows the type of input devices and output devices connected to the I/O module, along with the end-of-resistor's status of the input device and the zone (the area where the input and output devices are connected).

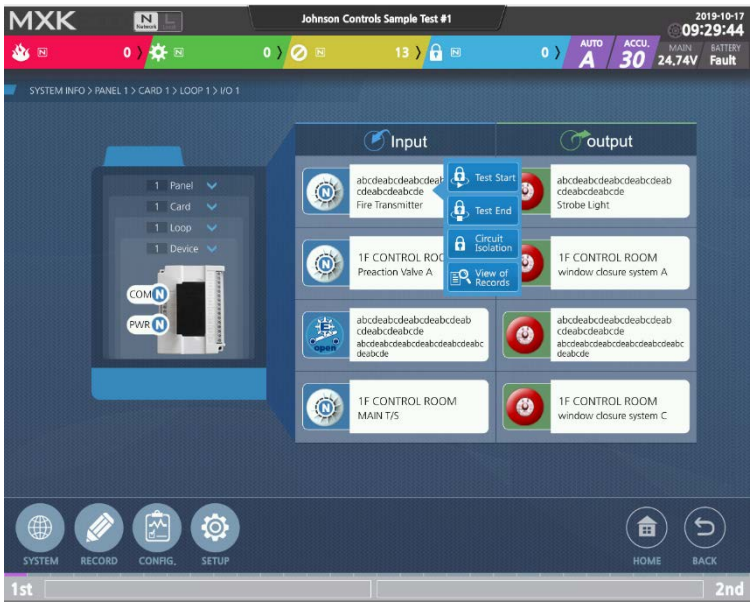
In the I/O module, the communication and power states are displayed as normal (N), trouble (X) as shown in the legend. If you want to conduct a circuit test (forced input) or circuit isolation or a record view on the screen above, touching the square box that displays the area will invert the color of the square box as shown in the following screen, and the submenu will appear.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Panel State

Submenu of 2x2 I/O module



An inverted image in the Input or Output area means that this circuit is selected.

Touching Test Start from the sub-menu displays the menu for circuit test

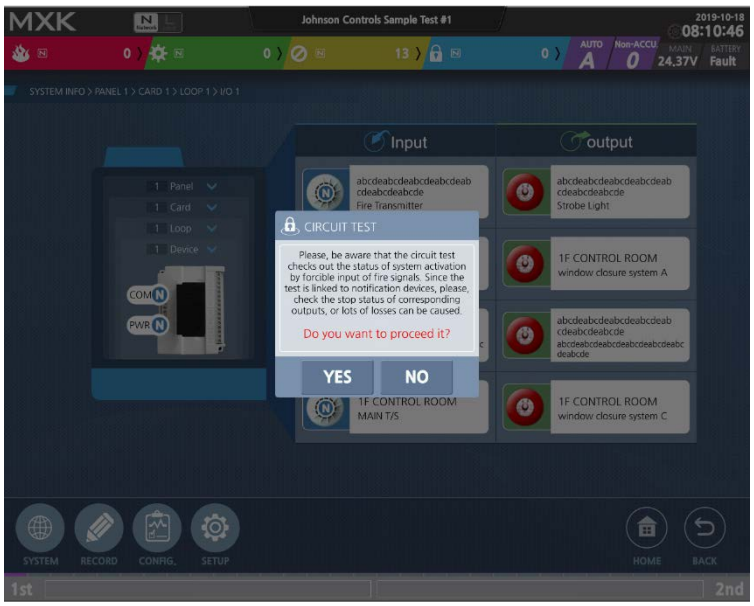
Touching Circuit Isolation isolates the circuit so that no events are collected for that point.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Panel State

MXK 2x2 circuit test warning & confirmation



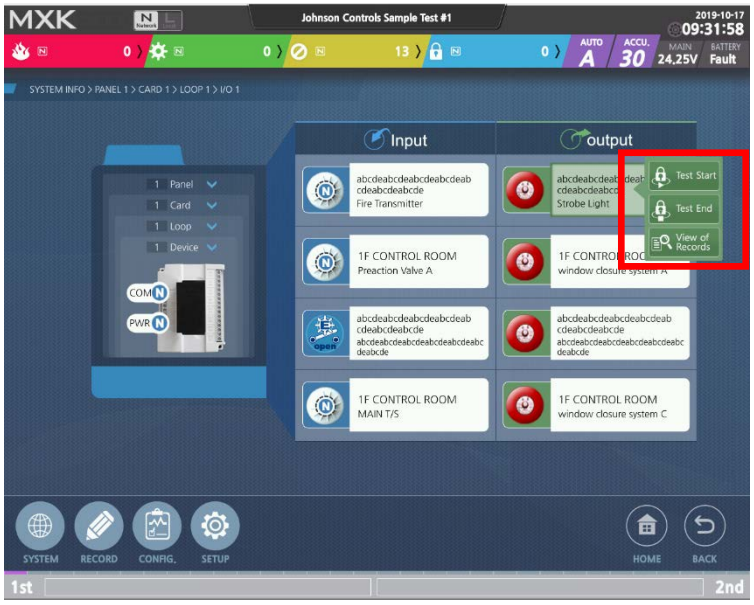
This screen appears when you touch the circuit test button in the previous screen. It explains the hazards that may occur during a circuit test. Before the test, a user should read it and pay special attention to the enormous damage that may be caused by the test.

If you really want to conduct a test, touch on 'YES' at the bottom of the pop up window, and you will see another window as shown in the next page. If you don't want to carry out the test, touch 'NO'.

Normal screen

✓ **Panel State**

MXK 2x2 Output Test



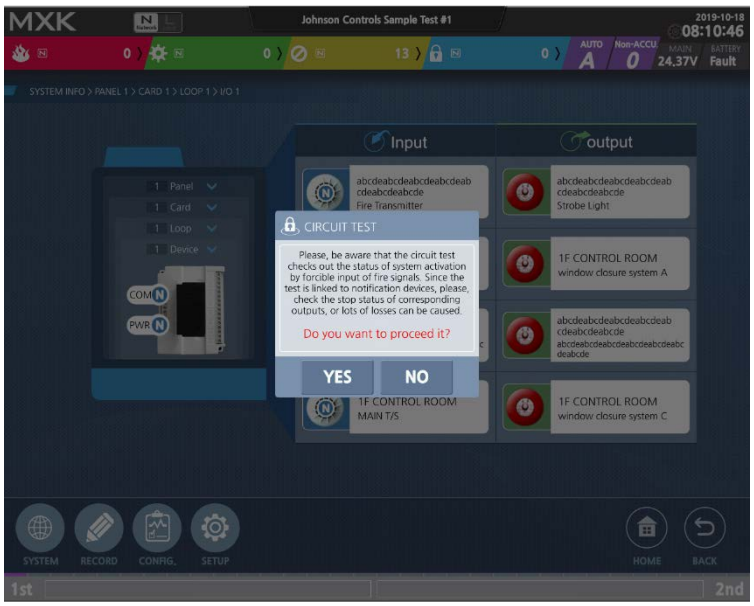
If you want to perform a forced test on the output, Touch the green square boxes on the screen above which represents the output zone on the screen of I/O module state, and the Touched icon will be inverted as shown in the screen above. In this state, Touch the circuit test in the submenu and you are ready to test the output.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Panel State

MXK 2x2 Output Test Warning & Confirmation



The screen above describes the hazards that may occur during the output test, and the user must read it before the test and pay a special attention to the damage that may result from the test.

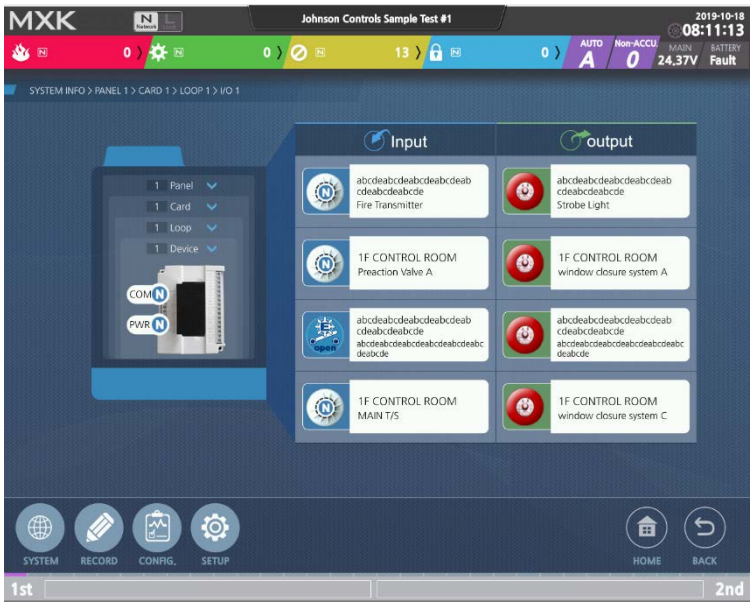
If you really want to conduct a test, touch on 'YES' at the bottom of the pop-up window, and see another pop-up window as shown in the next page.

If you don't want carry out the test, touch 'NO'.

Normal screen

✓ Panel State

The state of 4x4 I/O module



This screen appears when you touch on a device (I/O module's icon) on the loop information screen. This is the status of MXK44 I/O module. The screen shows the type of input device and the output device connected to the I/O module along with the status of the input device's end-of-resistor and the zone (the area where the input and output devices are connected).

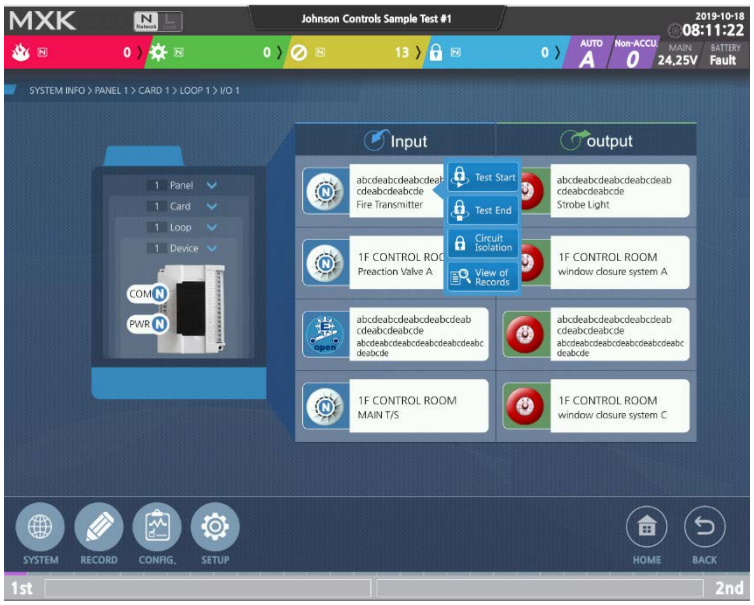
In the image of I/O module, the COM and PWR states are displayed as normal (N), trouble (X) as shown in the legend. If you want to carry out a circuit test (forced input) or circuit isolation or view records on the screen above, touching the square box displays the area. The selected box will be inverted as shown in the following page, and the submenu will appear.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ **Panel State**

4x4 Circuit Submenu



An inverted image in the Input or Output area means that this circuit is selected.

Touch Test Start from the sub-menu to display the circuit test menu.

Touch Circuit Isolation to block the circuit so that no events are collected for that point.

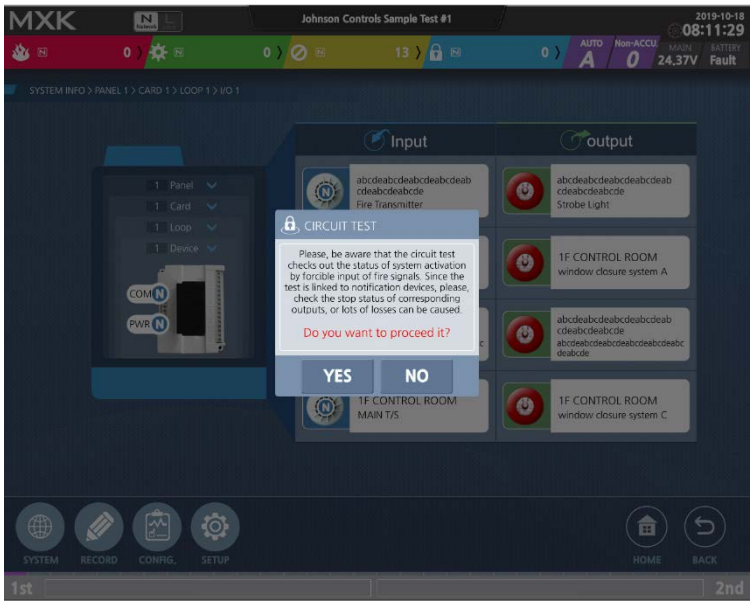
Touch View of Records to search for and show the records for that point.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Panel State

4x4 Circuit Test Warning and Verification



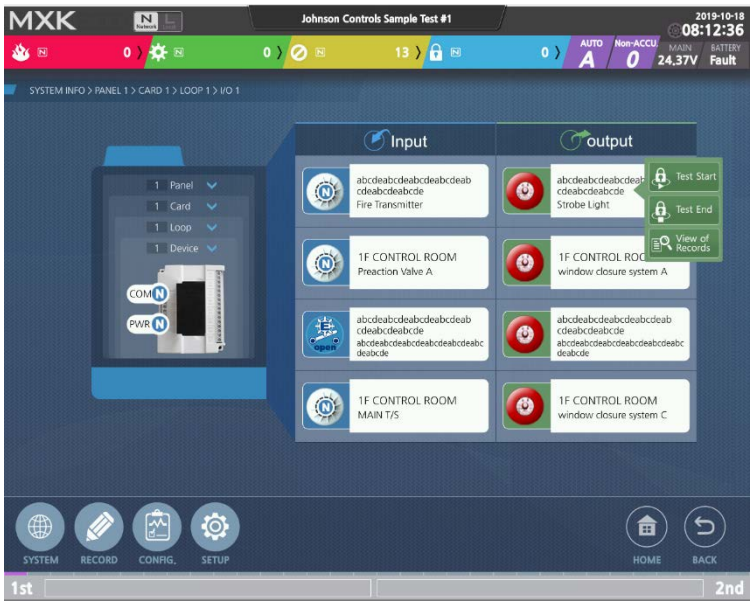
The screen appears when you touch the circuit test button on the previous screen. The window describes the hazards that may occur during a circuit test. Before the test, a user should pay special attention to the enormous damage that may be caused by the test.

If you really want to conduct a test, touch on 'YES' at the bottom of the pop-up window, and see another pop-up window as shown in the next page. If you don't want to carry out the test, touch 'NO'.

Normal screen

✓ **Panel State**

4x4 Output Test



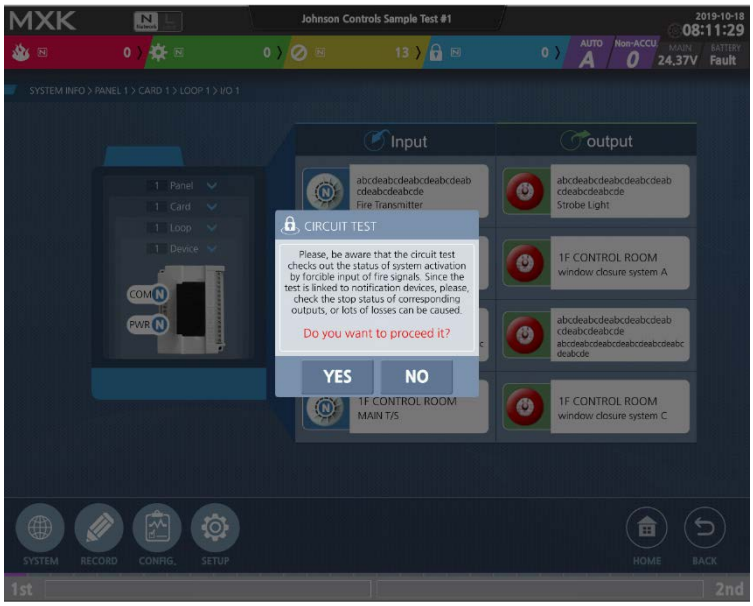
If you want to perform a forced output test, Touch on the square box (where reads the "Strobe Light"). Touching the circuit test in the submenu is ready to test the output.

Touching the "Home" button on the screen goes to the initial screen, and touching the "Back" button moves to the parent menu of the current one.

Normal screen

✓ Panel State

4x4 Output Test Warning & Confirmation



The pop-up window describes the hazards that may occur during the output test, and the user must read it before the test and pay attention to enormous damage that may result from the test.

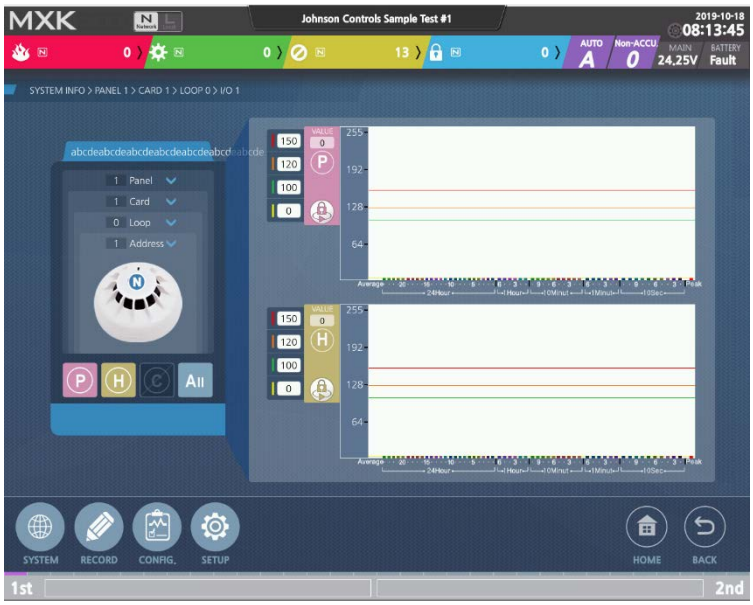
If you really want to conduct a test, touch on 'YES' at the bottom of the pop-up window, and another pop-up window will appear as shown in the next page.

Touch 'NO' if you don't want to carry out the test.

Normal screen

✓ **Panel State**

Analog Detector



The screen above is about an analog detector with a maximum value of 127. On the left side of the screen, analog information of P (optical), H (quantitative), and C (carbon monoxide) types can be checked, and non-applicable type is disabled and cannot be read. On the right side of the screen, the reference level and the level values received from the detector are recorded in a graph.

Peak: Displays the highest value received from the detector.
10-sec area: One bar in the graph represents the sample value for 1 second. (Total time for sampling in this area is 10 seconds)
1-min area: One bar in the graph represents the average of sample values for 10 seconds. It is the data transferred from 1- min area which has more than 6 sampling values for 10 seconds. (Total time for sampling in this area is 1 minute)
10-min area: One bar in the graph means the average of sample values for 1 minute. It is the data transferred from

1-min area which has more than 10 sampling values for 1 minute. (Total time for sampling in this area is 10 minutes)

1-hour zone: One bar in the graph represents the average of sample values for 10 minutes. It is the data transferred from 10- min area which has more than 6 sampling values for 10 minutes. (Total time for sampling in this area is 1 hour)

24-hour area: One bar in the graph represents the average of sample values for 1 hour. It is the data transferred from 1-hour area which has more than 24 sampling values for 1 hour. (Total time for sampling in this area is 24 hours)

Average area: It shows the average that has been accumulated for more than 24 hours, and after 24 hours, it displays the average of a newly input value and the current value every one hour.

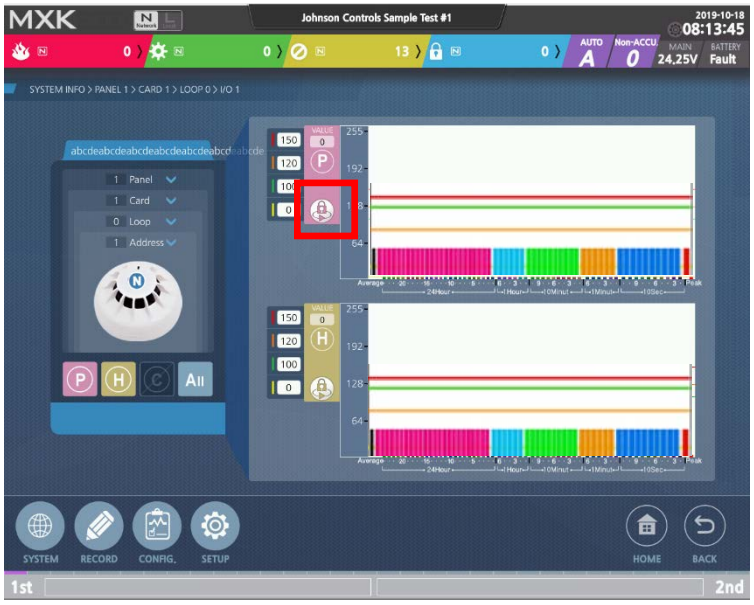
Analog has 3 types.

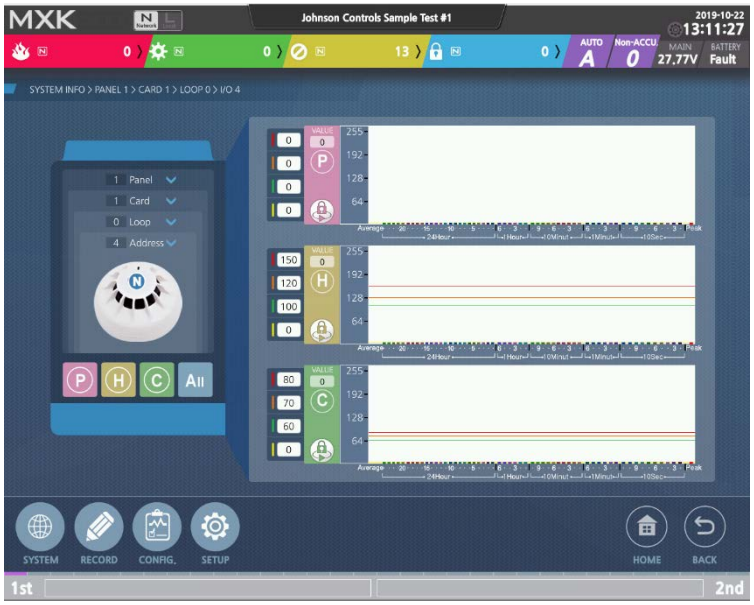
Analog value of the reference level can be up to 127 or 254 depending on the analog type.

Normal screen

✓ **Panel State**

Analog Detector



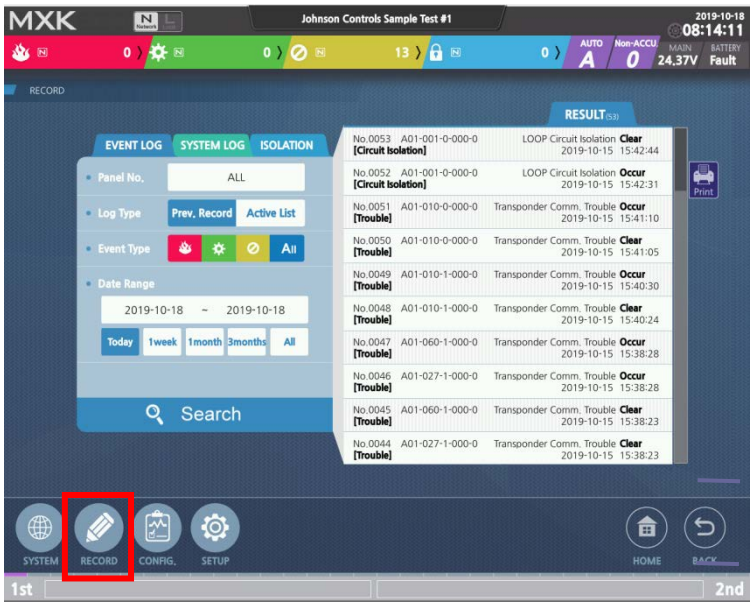


The screen above is about an analog type detector with two or three kinds of information. Touch the red box of the screen to see the warning statement and to isolate the circuit.

Normal screen

✓ Record

Overview



The screen that appears when you touch the Record menu in the initial screen shows all events that have occurred such as fire, trouble and others on the current panel.

The left-hand side of the screen displays search conditions, and the right-hand side displays search results.

The search conditions contain past records that have accumulated from the past, and an active list where current events are listed. Both records cannot be selected at the same time.

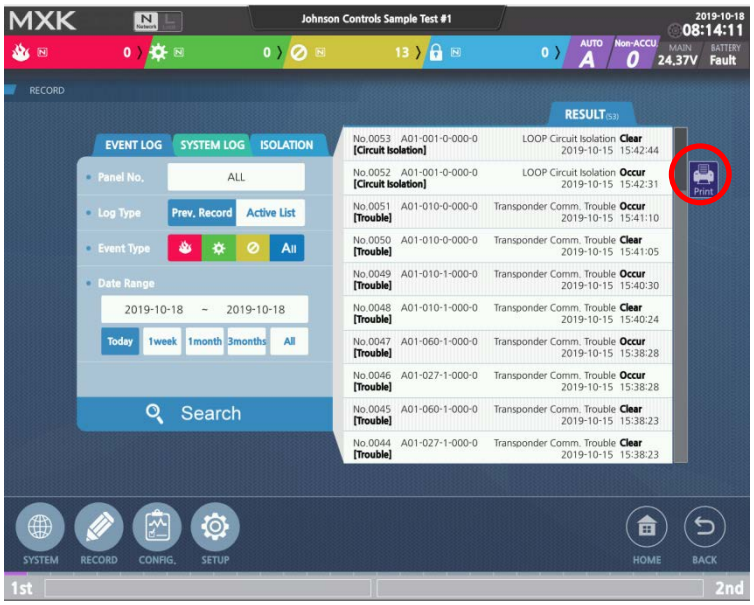
And there are fire, equipment, trouble, and all in event type. The event type is multi-selectable. The Date Range covers from today, 1 week, 1 month, 3 months to the entire period. Touching the period shows the concrete day immediately above.

The screen above shows sample events when you conduct the test.

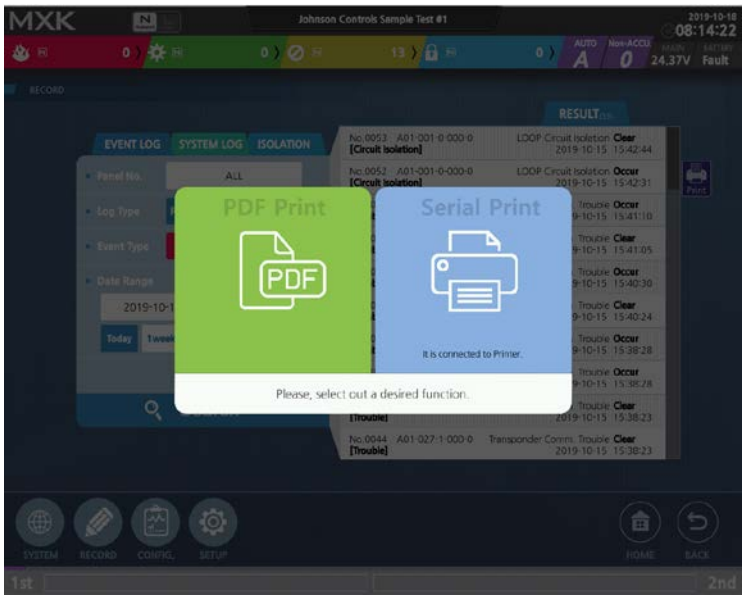
Normal screen

✓ **Record**

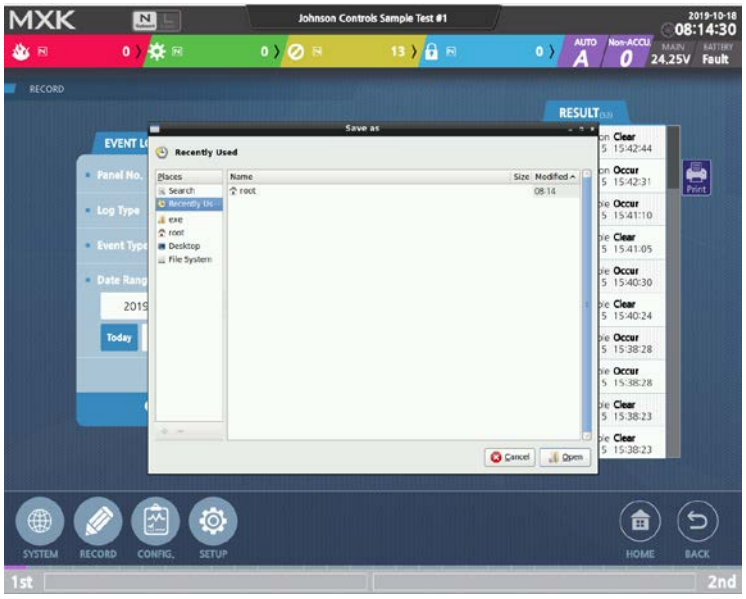
Print (PDF)



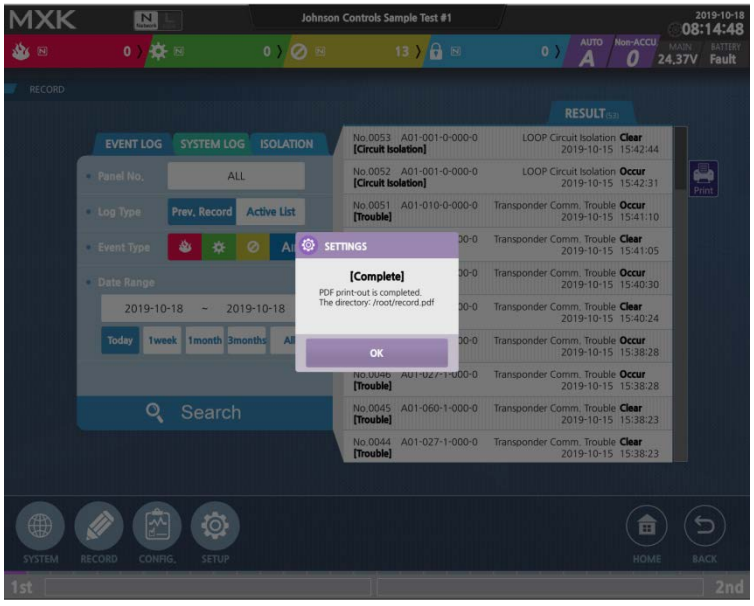
If you want to print a record file as PDF, Touch the Print button on the upper right corner of the screen, and a screen will be displayed as below.



Touching PDF Print menu, and



the screen above is shown to select a location to save the record file as PDF and then Touch the Choose button.

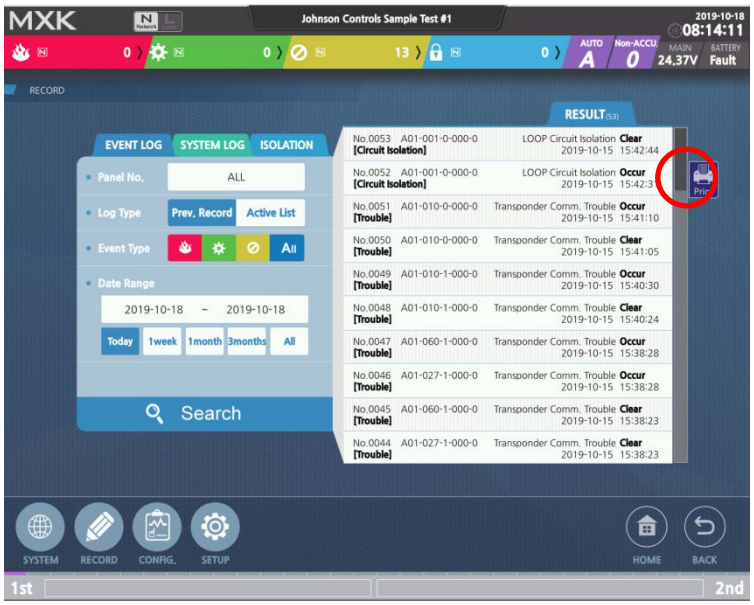


When the file saving is completed, the screen above will be displayed. The path appears with the completion message.

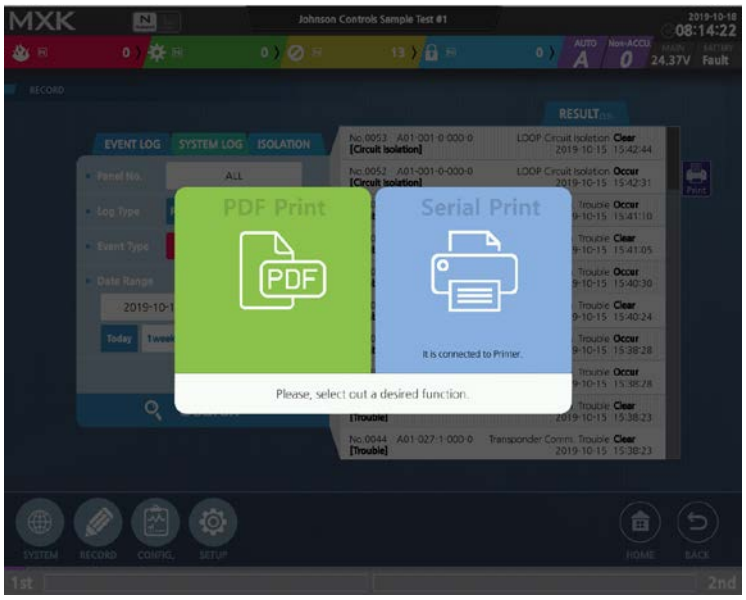
Normal screen

✓ **Record**

Print (Serial)

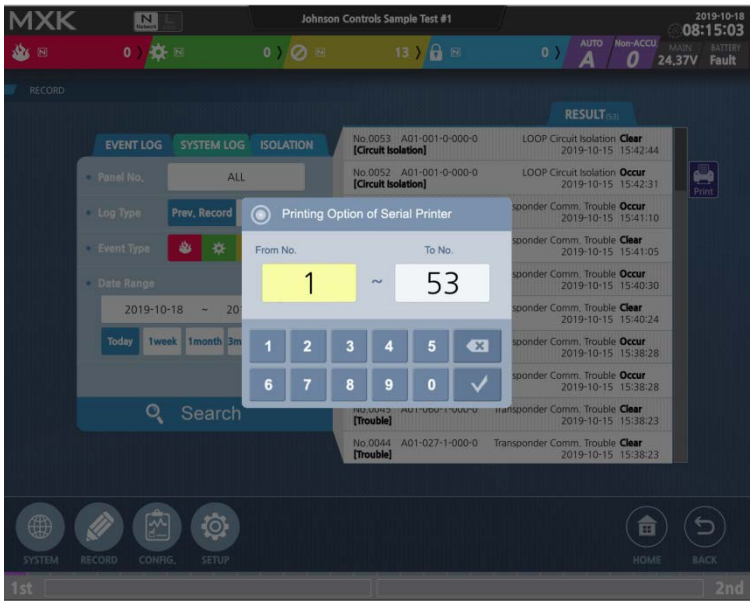


In order to print out records, touching the Print button on the upper right corner of the screen displays the following screen.

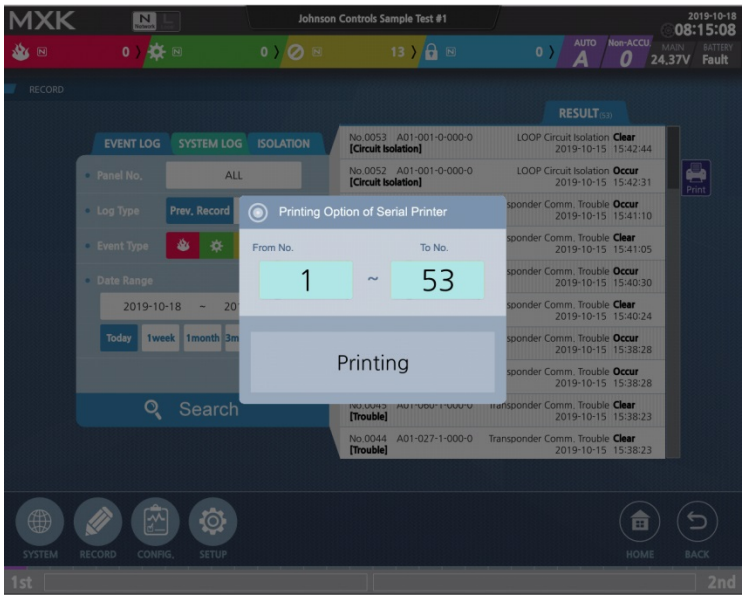


Select the Serial Print. If it is not selectable, make sure that the print connection is OK.

Once selected, the Print Range window for the search results is displayed.

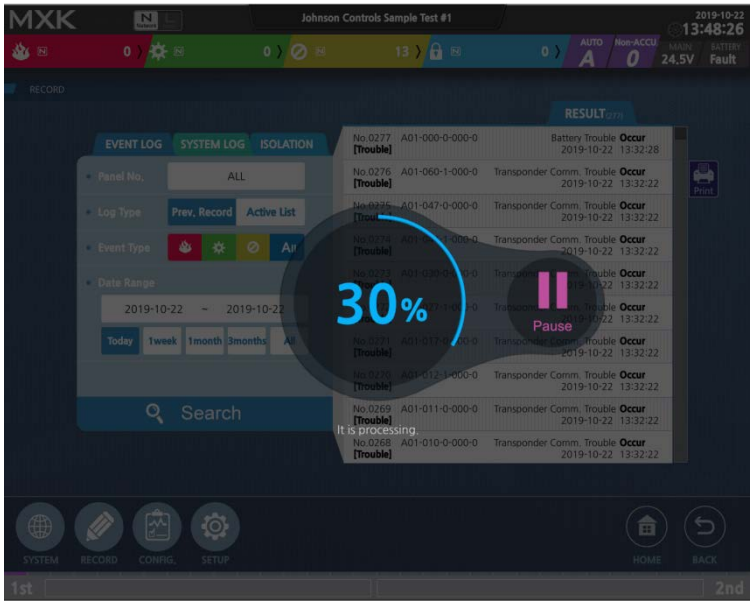


Set the range on the pop-up window above and press the √ button to continue.

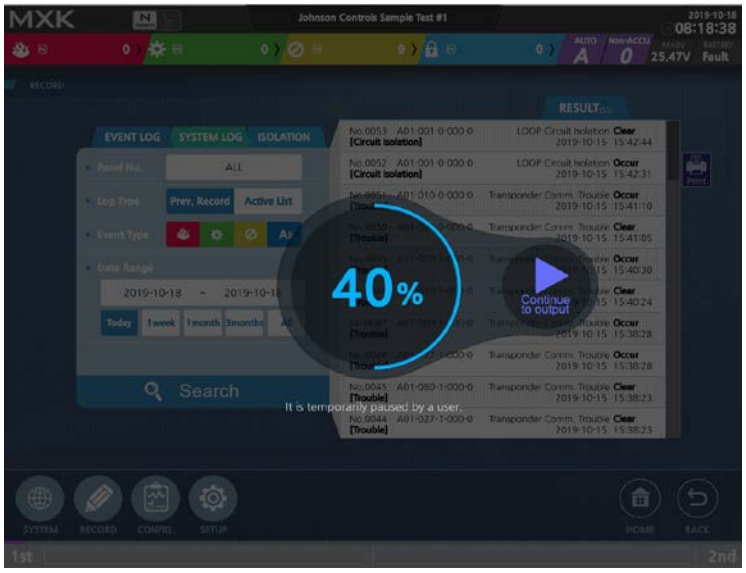


When the Printing button is activated, the range values are fixed and cannot be changed; if you want to make changes, Touch another area to start from the beginning.

Once the desired range is selected, select the Print button. Upon selected, the print-out will proceed as shown in the screen below.

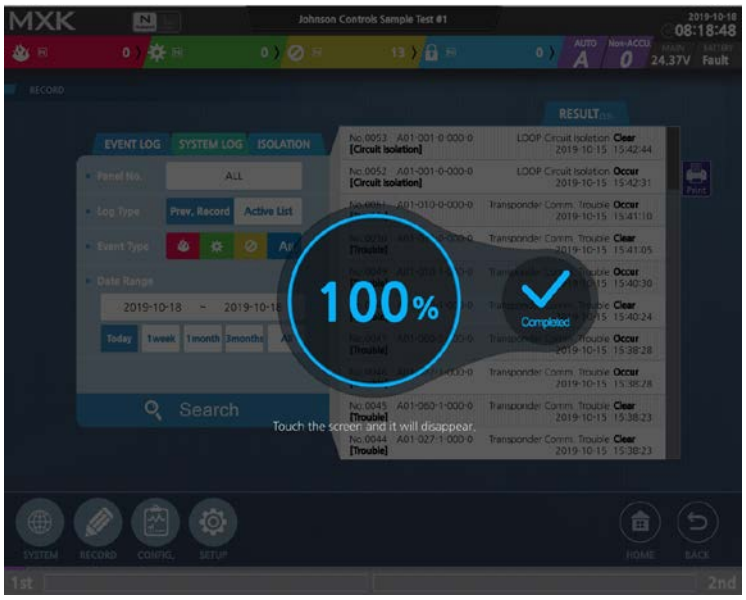


While the print-out is in progress, touching another area cannot abort the print. In order to stop, select the Pause button, and touch another area. You can see the events again. The print-out is paused with the guide message: It is temporarily paused by a user.

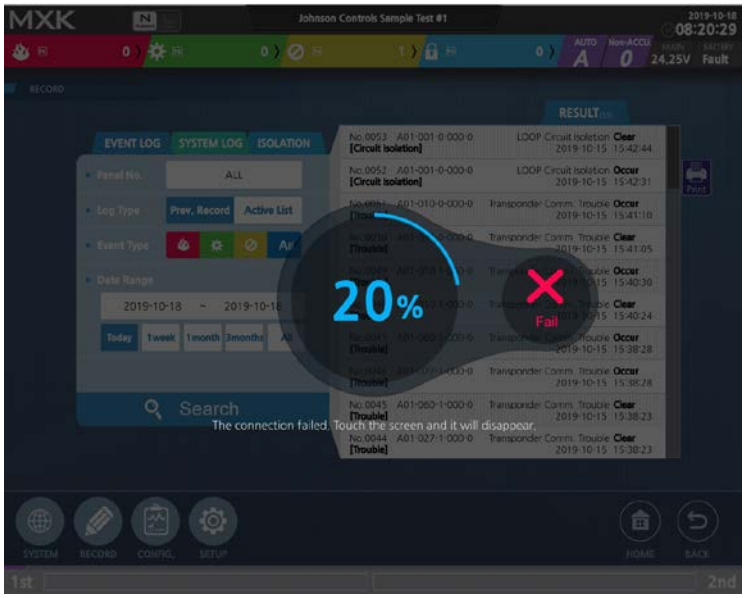


If you want to end the print, touch a different area. If you want to continue the printout, select the Continue to output button.

When the print is completed, the following screen is shown.



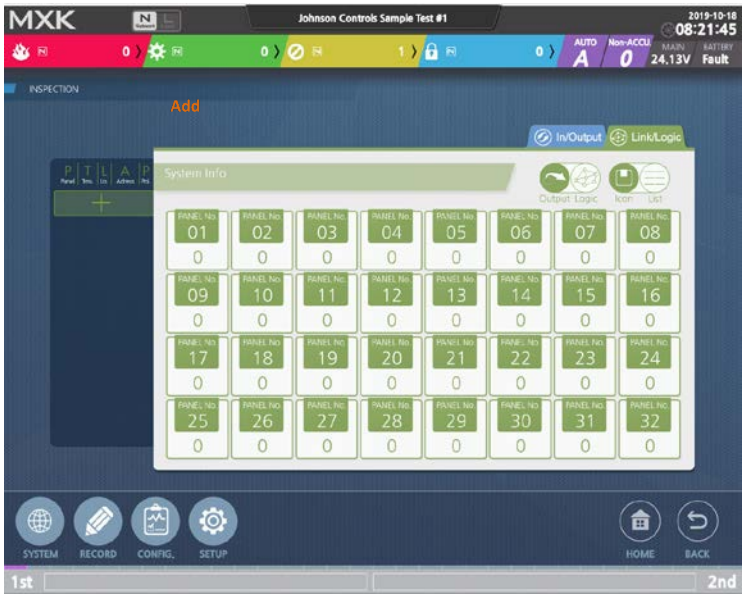
If communication is lost during the print-out, the screen below will be shown, and the process so far should be done from the beginning.



Normal screen

✓ CONFIG

Overview



Touching the CONFIG button on the initial screen shows the screen above.

The inspection is to check the information of in/output circuits and linked output downloaded on the panel for malfunctions or problems.

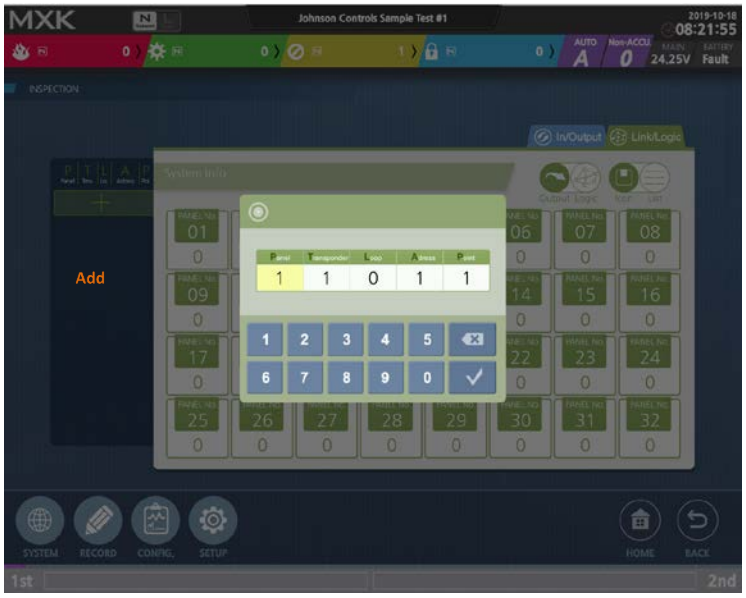
Inputs and outputs that occur on the screen are virtual and don't function actually.

The panel provides the simulation function.

Normal screen

✓ **CONFIG**

Selecting input



Touching the + button on the left of the inspection screen shows the screen above.

The screen above selects a location to generate a virtual input, which allows you to select the input of a panel, a transponder, a loop, an address, and a point.

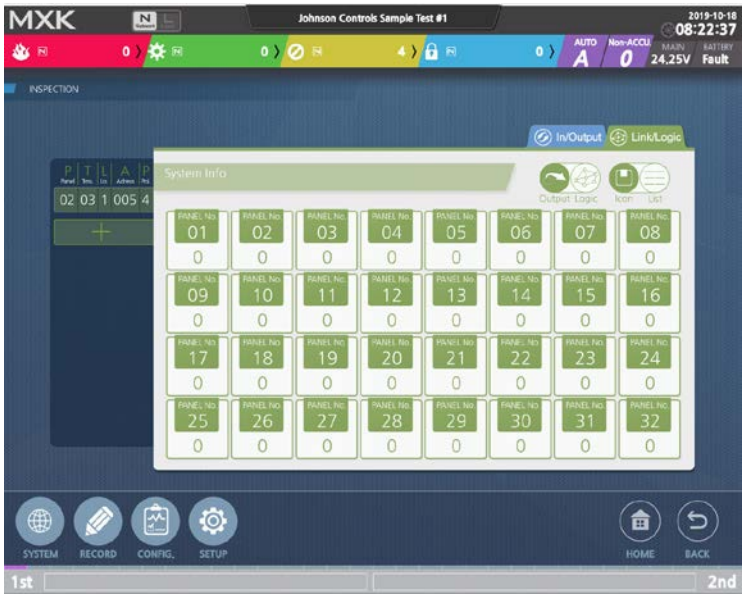
Once you have selected, touch the desired input and the following screen will appear.

The panel provides the simulation function

Normal screen

✓ CONFIG

Output Link (Link & Logic)



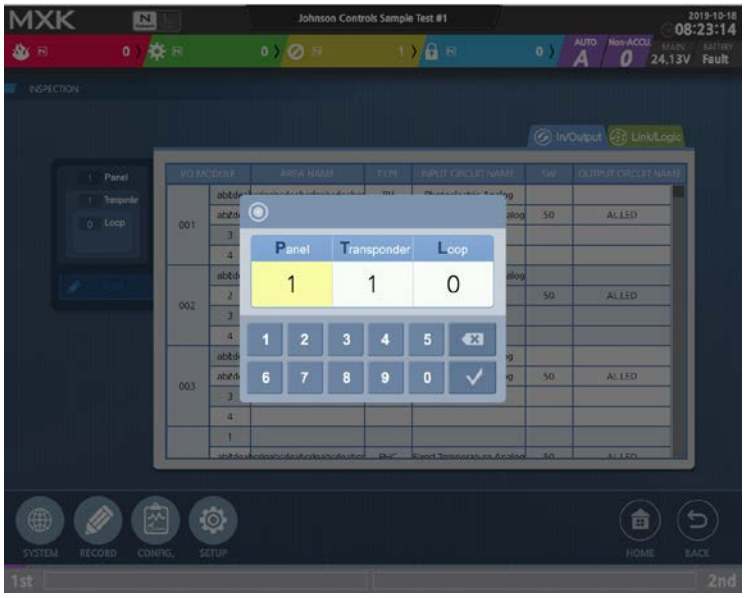
The input selected in the previous page is represented on the left side of the screen. And the output's number for that input is shown on the right side. Selecting the location where the numbers appear confirms the output.

The panel provides the simulation function.

Normal screen

✓ **CONFIG**

In/Output table (ADIO)



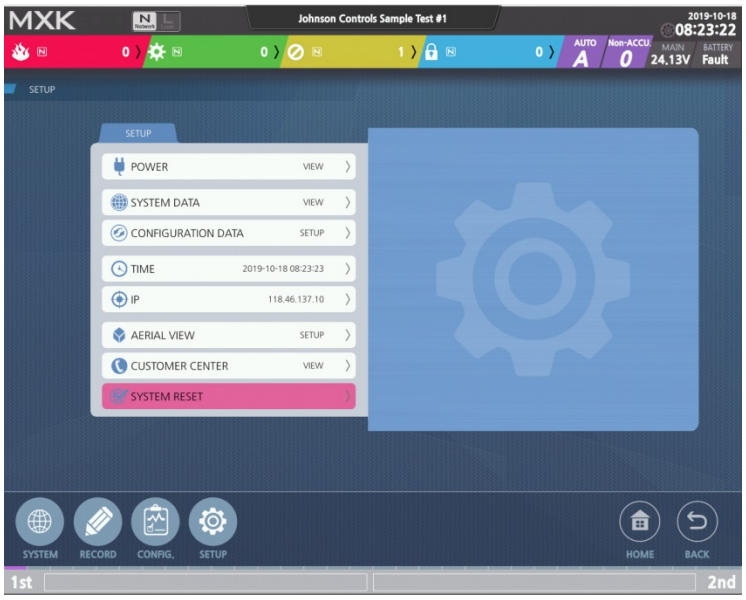
The screen above is to select a location to confirm the corresponding input & output. A user can select a panel, a transponder, and a loop.

Select and Touch the desired loop to display the information of the In/Output table.

Normal screen

✓ **SETUP**

Overview



The screen that appears when you touch on the Setup menu in the initial screen provides data to be set or changed on the panel.

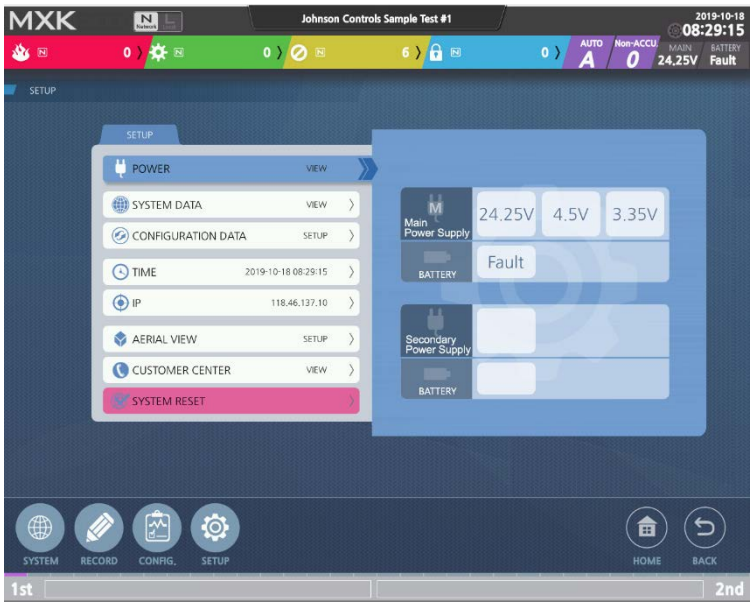
The sub-menu is on the left side of the settings, and the result from the sub-menu is on the right.

The screen above shows nothing selected.

Normal screen

✓ **SETUP**

Power



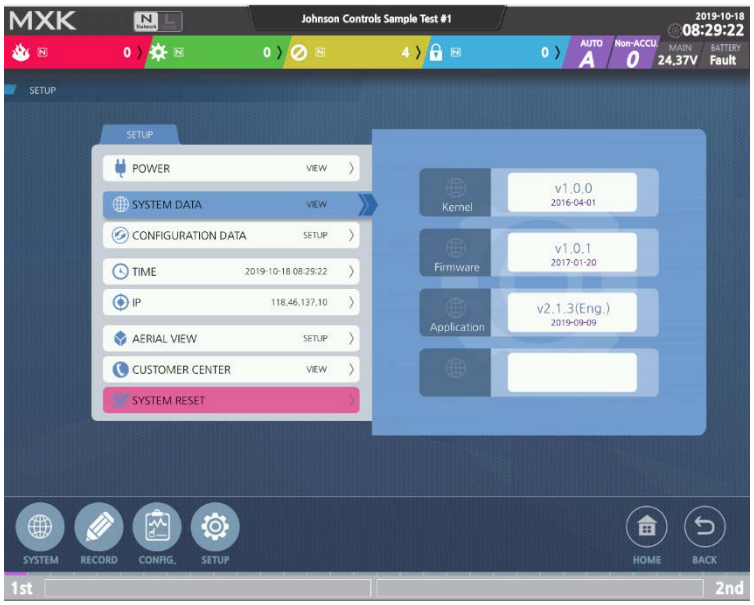
Touching the power button on the setting screen displays the screen above with main power voltage (24V, 5V, 3.3V) and main battery voltage information, as well as secondary power voltage and secondary battery voltage information on the right.

.

Normal screen

✓ **SETUP**

System Data



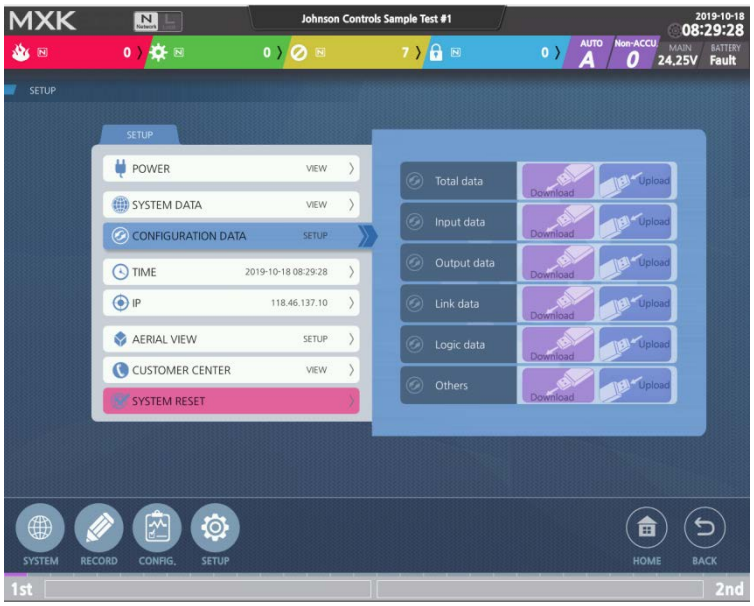
Touching the System Data button on the setting screen displays the screen above. System data represent the programs required for the panel to operate.

System data shows programs' version on the screen.

Normal screen

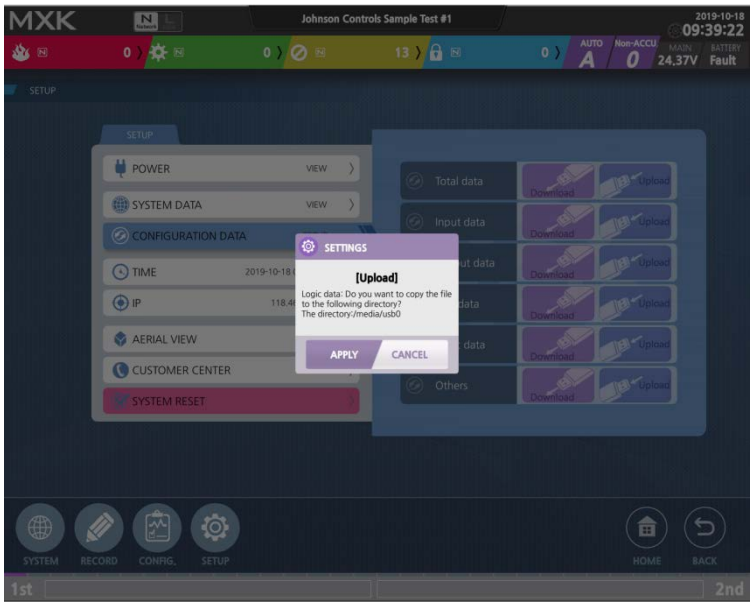
✓ SETUP

In/Out Program Data

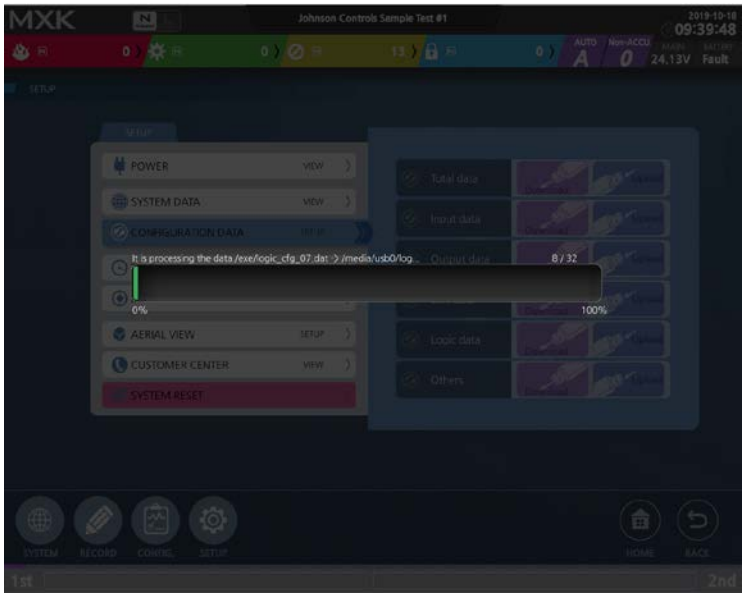


Touch the Configuration data button on the setting screen to see the screen above. The In/Output program and data button represents data to control Input/output links or fire/equipment activation based on the data collected from the site to the panel by using the input/output link table and the site map through Consys program.

The download and upload of In/Output program data are the same as that of the system data.



This screen appears when you Touch Download/Upload from the previous screen. The guide message will be displayed and you can touch on the Apply button to actually apply the data to the system, or Touch the Cancel button to remove the message.

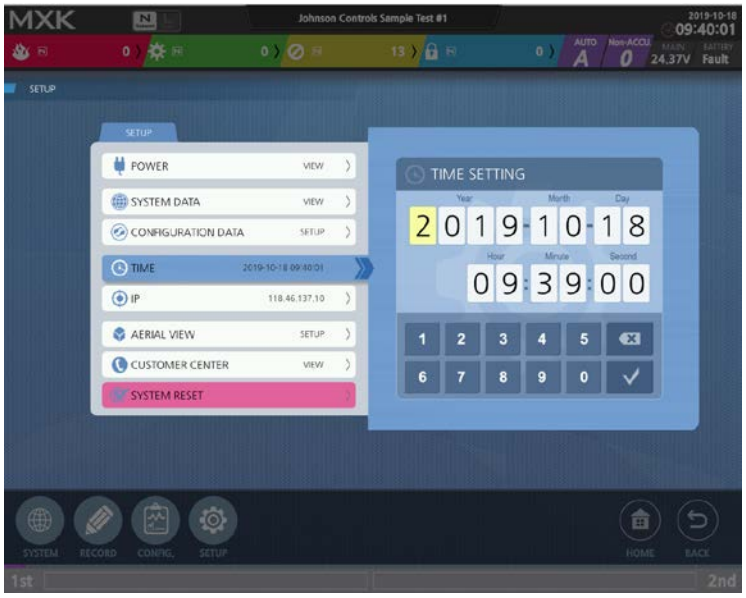


Touch the Apply button and the progress window will appear as shown above. (Completion criteria 100%)

Normal screen

✓ SETUP

Time



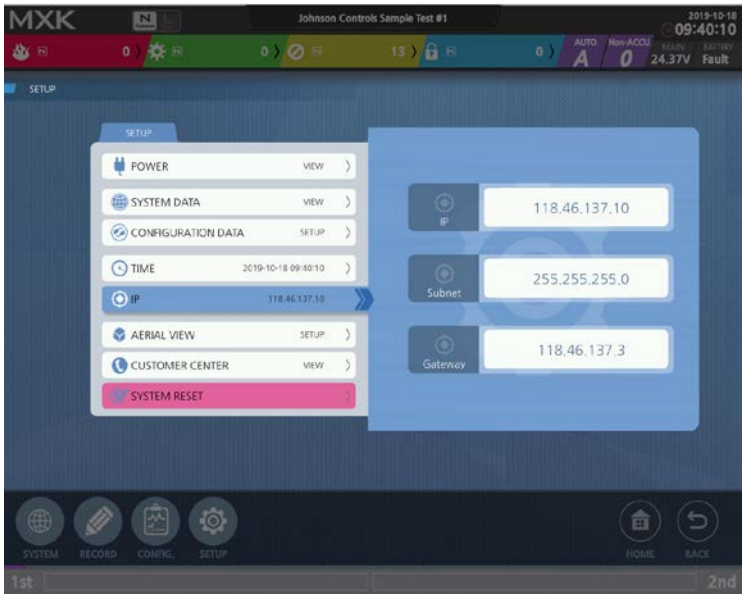
Touch the Time button on the setting screen to display the screen above. Time plays an important role because it represents the time displayed in the upper right corner of the screen and is one of criteria used to record events occurring from the device or system.

The current time is displayed, and when the time is set, it is applied to the system immediately.

Normal screen

✓ **SETUP**

IP



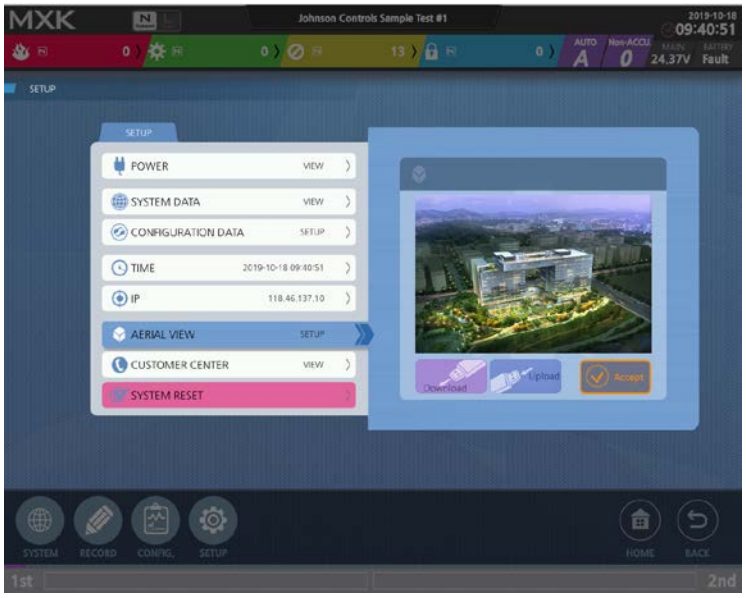
Touch the IP button on the setting screen to display the screen above. IP displays the IP information set on the panel. This information is used to exchange data with workstation, or another panel.

Also, subnet and gateway are displayed.

Normal screen

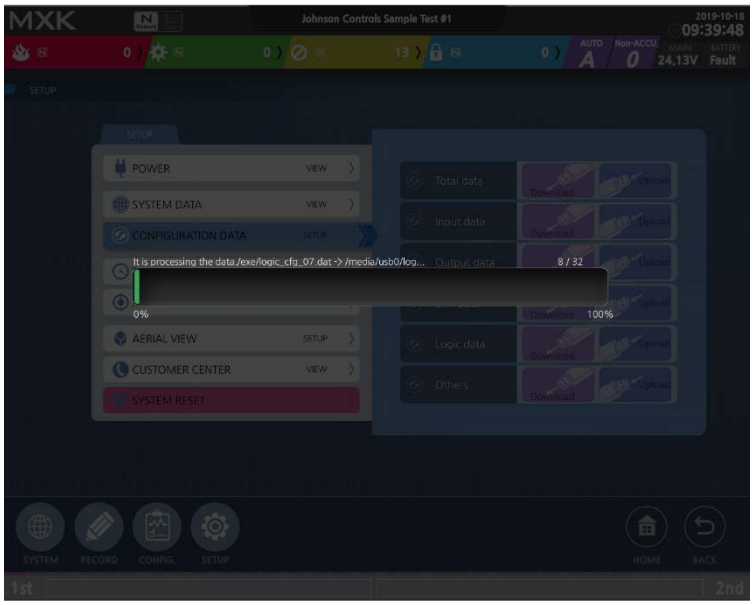
✓ SETUP

Aerial View



Touching the aerial view button on the setting screen displays the screen above. The aerial view is the image that appears on the initial screen of the panel.

It can download/upload screen images.



The file name is homepic.png, and if the file name is different, it cannot be recognized. When you download it, there is a process that resizes the file size to fit in the screen. Therefore, the size of an image to download is not limited.

Normal screen

✓ Setting

Customer Center

Touch the Customer Center button on the setting screen to display the screen above.

Fire Occurrence

✓ Fire Occurrence

Overview

The screen appears when a fire occurs on the initial screen. The bottom of the screen displays information about the 1st fire and 2nd fire.

Touching fire occurrence box at the center of the screen will bring up the screen on the next page.

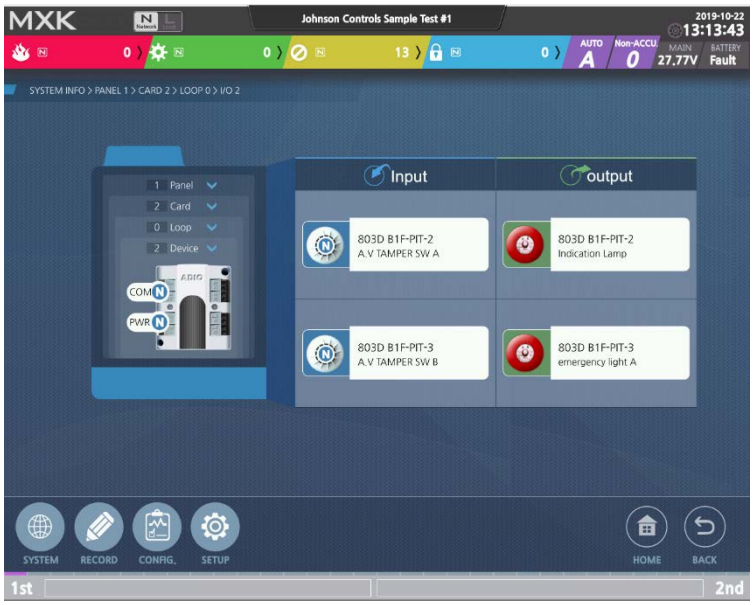
Touching the fire icon, and navigate to another menu.

* The number of fires in the upper left corner of the screen increases from zero to the number of current fires.

Event Screen (including fire)

✓ I/O module

Overview



This is the screen in the I/O module menu.

If a detector connected to the I/O module is activated by fire, the fire icon is displayed and the operation status of the output equipment connected based on the In/Output map is shown.

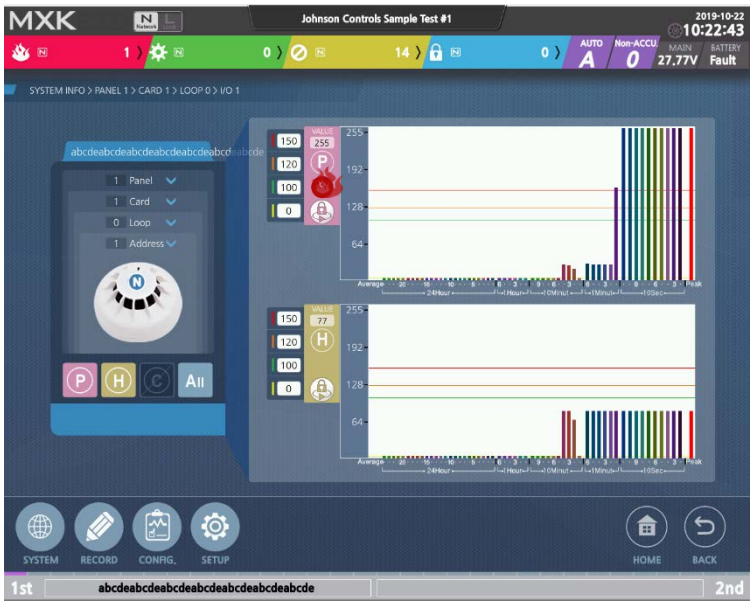
Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info.

The Back button goes to the parent menu of the current one.

Fire Occurrence

✓ Analog Detector

Overview



This screen appears when you touch an analog detector, and the icon changes to show fire occurrence by a fire image.

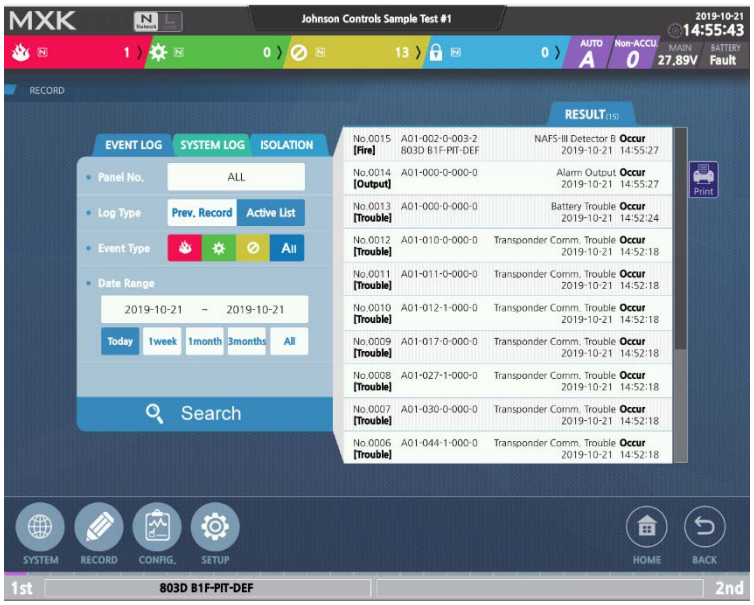
Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info

The Back button goes to the parent menu of the current one.

Event Screen

✓ Fire Records

Active List



This screen shows a currently active list for an area where fire occurs. This screen appears when you touch the Record icon on the bottom of the screen. Select the currently active list in the search fields and Touch Search to see the corresponding area and the type of activated detectors. The 1st Fire and 2nd Fire keep being displayed in any screen of any menu until the fire is restored to normal and the fire indicator icon keeps being displayed.

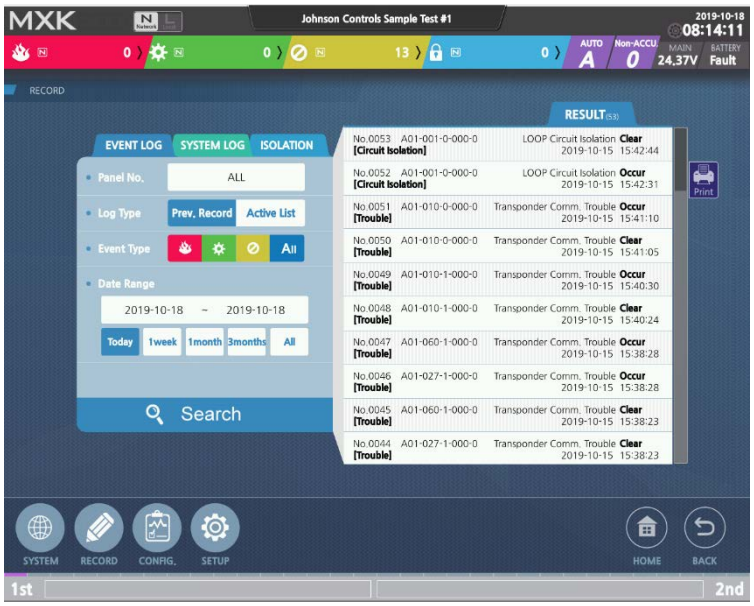
Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info.

The Back button goes to the parent menu of the current one.

Event Screen

✓ Records of fire alarm

Past Records



This screen shows the past records of fire and the area where fire occurred and it appears when you touch the Record icon on the bottom of the screen.

Select past records in the search fields and Touch Search to see the information of fire.

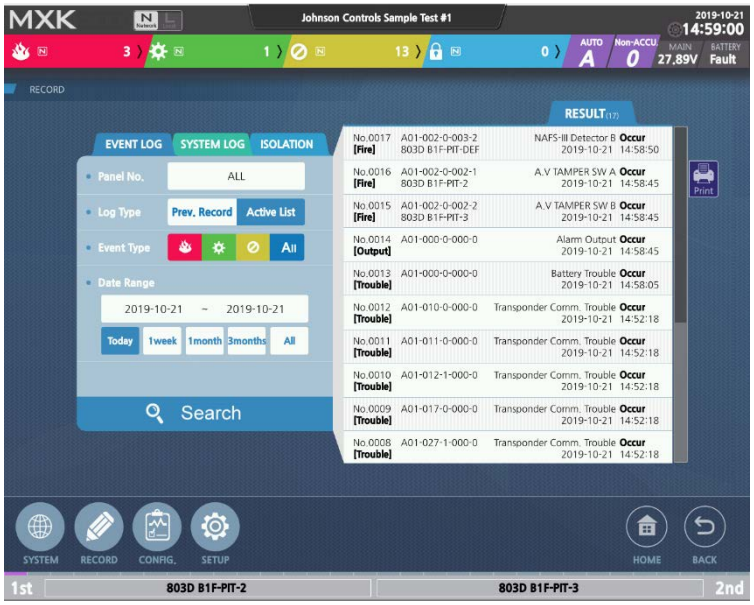
Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info.

The Back button goes to the parent menu of the current one.

Equipment Record Screen

✓ Equipment Statement

Active List



This screen shows a currently active list of equipment and the area where equipment was activated. It appears when you touch the Active List icon in the search fields.

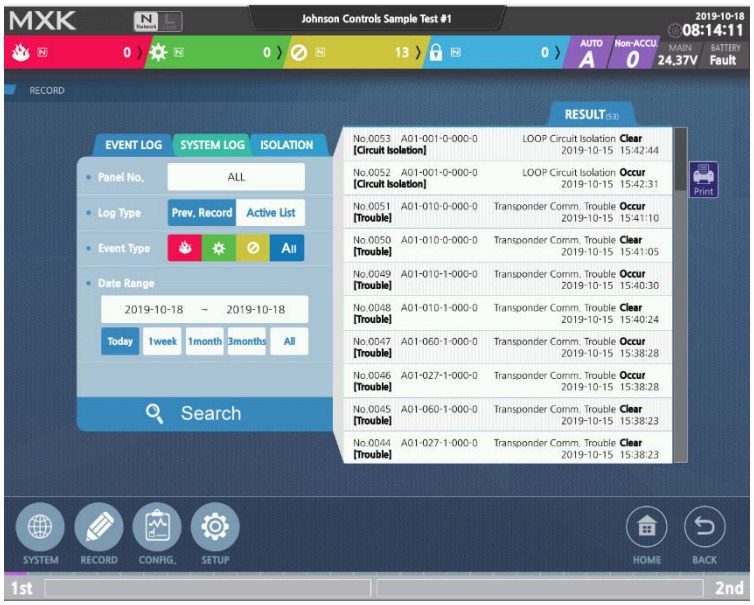
Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info.

The Back button goes to the parent menu of the current one.

Trouble Screen

✓ Trouble Statement

Overview



This screen shows the currently active list of troubles and the area where troubles happen. It appears when you touch the trouble record icon in the search fields.

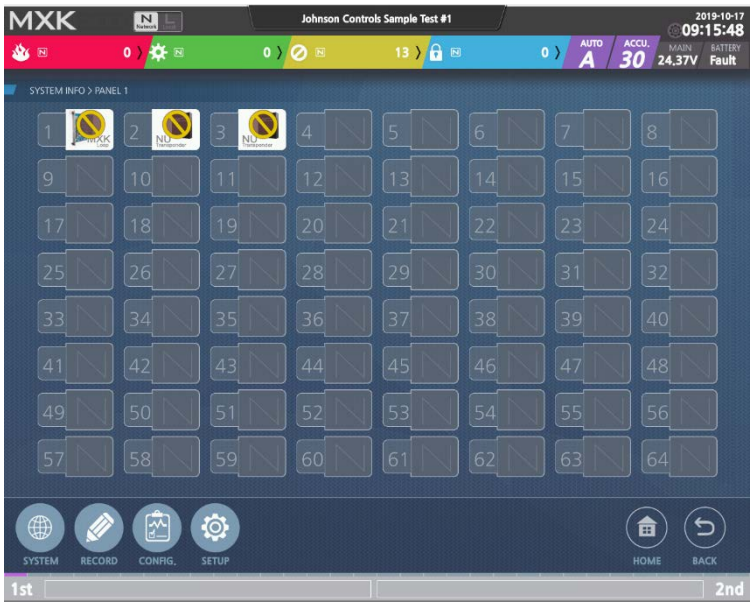
Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info.

The Back button goes to the parent menu of the current one.

Trouble Screen

✓ Transponder

States of All Transponders

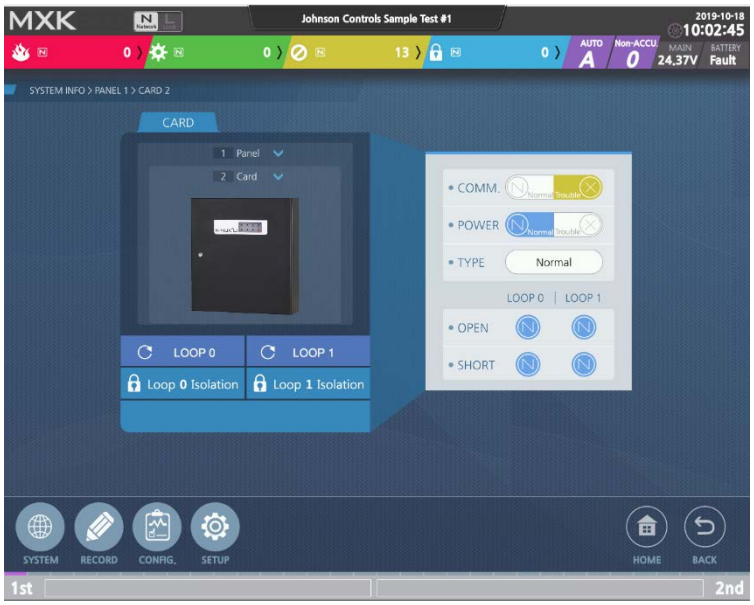


Select the panel information on the system screen to see the screen related to transponders. This screen provides a quick view of the states of transponders.

Trouble Screen

✓ Transponder

Transponder State



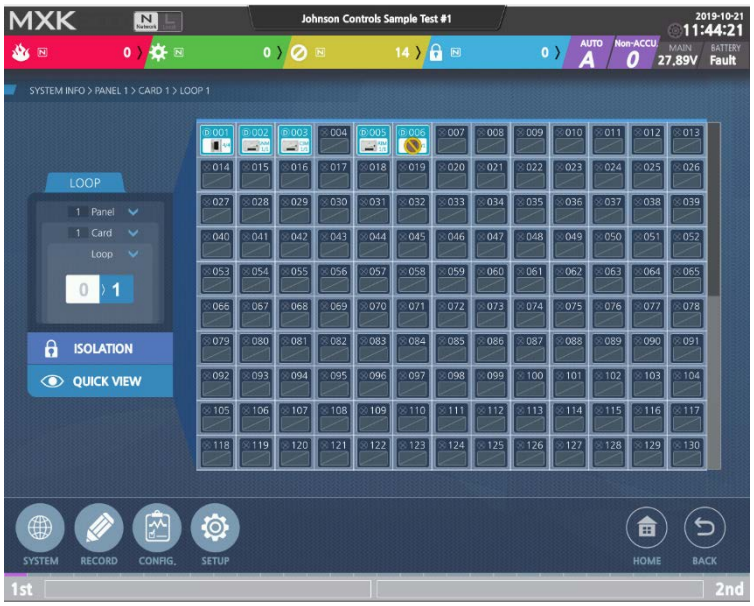
Touch the transponder to see the status of the transponder as shown above.

You can find the information about the communication trouble and power failure of the transponder on the right side of the screen. You can see trouble states of Loop0 and Loop1 and the status for open and short circuits.

Trouble Screen

✓ **Loop**

Device Status



The screen above is shown when a loop has a trouble, indicating that there is a trouble with No. 6 I/O module on the Loop 0 in No.1 transponder.

On this screen, it is not possible to determine what kind of trouble has occurred in the I/O module. You must touch the trouble icon to confirm the trouble.

Touching the Home button on the screen goes to the Initial screen, and touching the System button moves to the System Info

The Back button goes to the parent menu of the current one.