

SiOt





SiOt

INDEX

What is SiOt

What is SiOt	P.4
Line up	P.8

Use Case

Email Sending	P.12
Visualization	P.26
Logfile Saving	P.37
Quantity Count	P.44
Camera Recording	P.51
Time Count	P.55
Remote Control	P.62
Original System	P.69

Products

Controller	P.76
Software	P.77
Input Device	P.78
Output Device	P.82
Connector	P.84
Kit	P.85
Controller Specifications	P.86

Instruction

How to Use	P.87
------------------	------

SiOt tells you.

Connect to PC easily, IoT easily.

You can see the field right away.

SiOt with Ethernet communication function joins the SiO series that has been well-received for its "easy electrical control" for everyone. By installing and linking the free original software "IoT Programmer" on your PC, you can realize "e-mail transmission," "log file saving," and "tact time measurement" without any effort.

Try the New SiO Controller, which is useful for "easy" and "low-cost" IoT !



Email Sending

Quantity Count

Original System



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

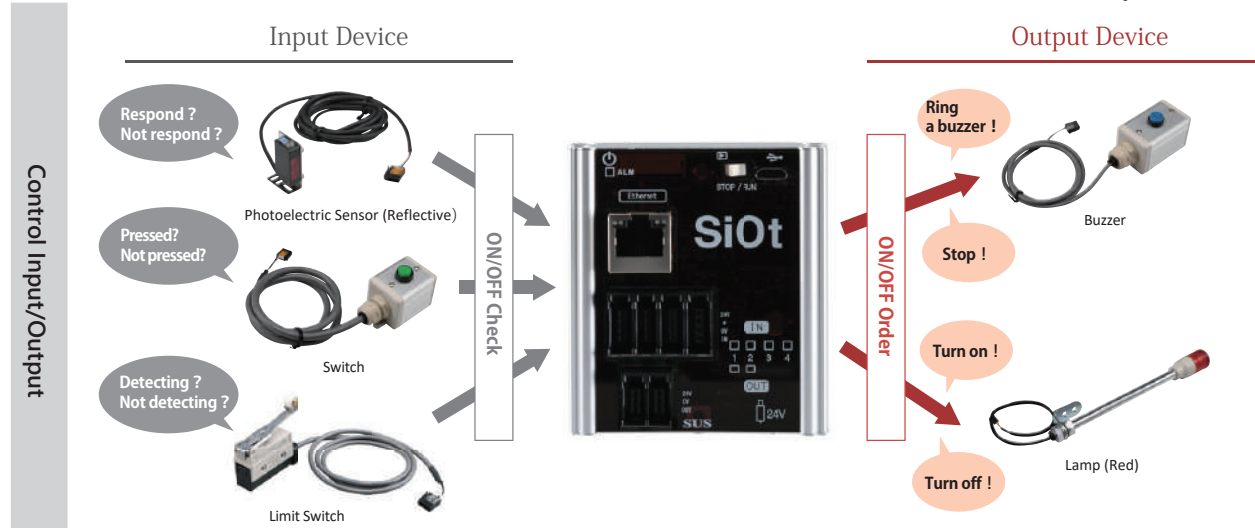
What you can do with SiOt

Function 1

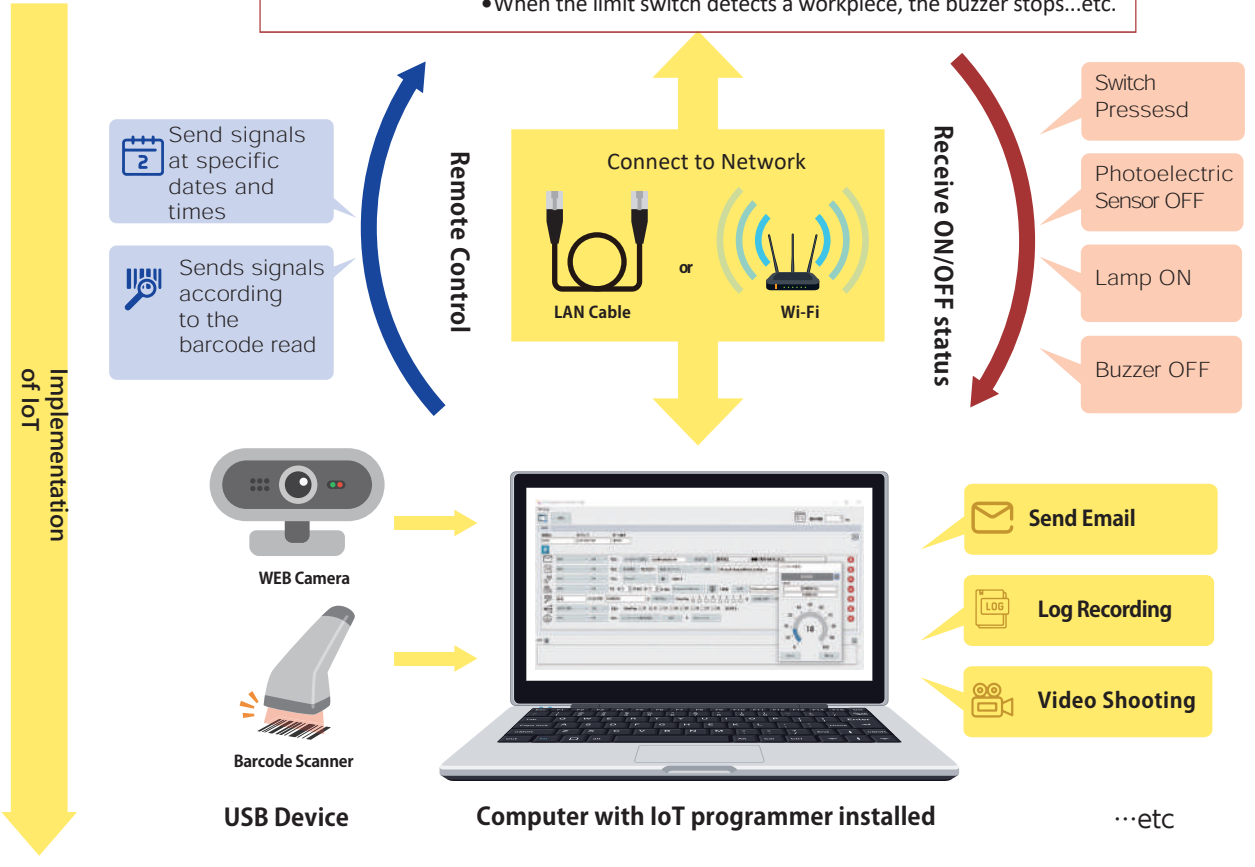
See the ON/OFF status of input devices and order output devices to turn ON/OFF.

The SiOt controller is pre-set with the output conditions using the original programming software "SiO Programmer".

When a situation matches the condition, the SiOt controller sends orders to the connected output devices.



- You can set...**
- Buzzer rings as long as the switch is pressed.
 - When the photoelectric sensor responds five times, the lamp is turned on.
 - When the limit switch detects a workpiece, the buzzer stops...etc.



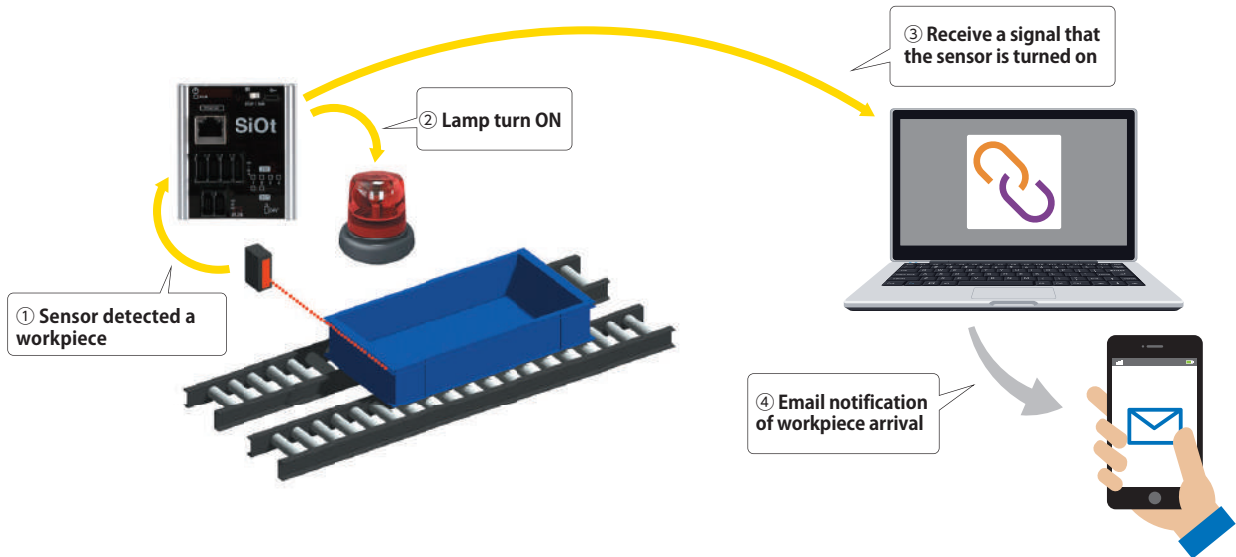
Function 2

Exchange signals with a PC via Ethernet communication function.

By connecting SiOt to a PC with the free software "IoT Programmer" installed, the PC can implement various operations in accordance with the controller's ON/OFF status.

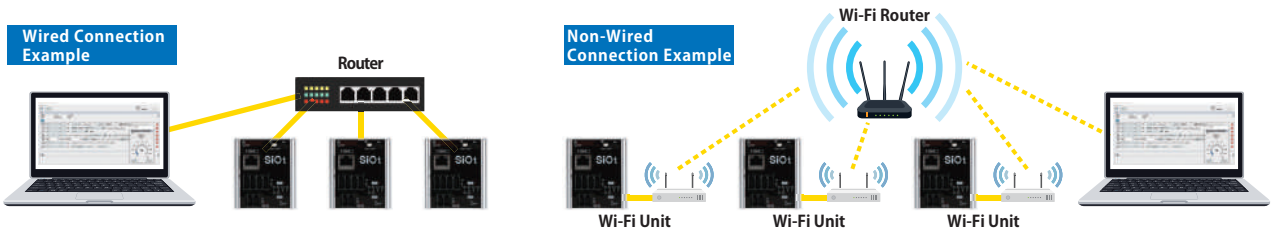
Image of SiOt Application

By combining input/output control with PC processing via a network, the system can be used for a variety of applications, including remote field monitoring and recording.



Example of connection to PC

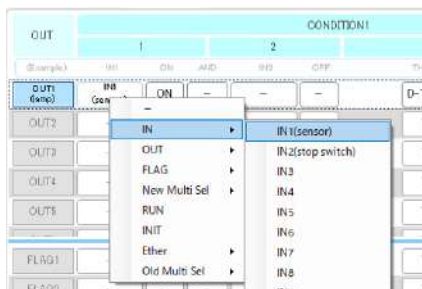
The SiOt can be connected to a PC by a cable to the Ethernet connector on the front of the SiOt. The SiOt can be connected to a PC directly, to an internal network through a router (hub), or wirelessly through a Wi-Fi device.



Easy I/O control by SiO Controller

The SiO controller is a popular item from SUS that enables even those without expertise in control to realize improvements through simplified motorization, with simple programming using original software for the controller and one-touch connection using a built-in standard e-CON. Its features remain the same with SiOt.

Easy Selectable Programming



Since you only have to pick a word from a list of options, the system is quite simple to use intuitively and can be learned in a short time.

One-touch connection by just plugging in



I/O Equipment



A variety of connection-compatible devices with e-CON connectors pre-installed are also available as options.

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction



Try before you buy! Free original software

In addition to the existing SiO Programmer, we have released IoT Programmer, a new software application that enables easy data utilization using a PC. Both software programs can be downloaded free from the SiO product page on the FA website, and version upgrades are coming in response to customer feedback.

Download from here
<https://fa.sus.co.jp/products/sio/software/>



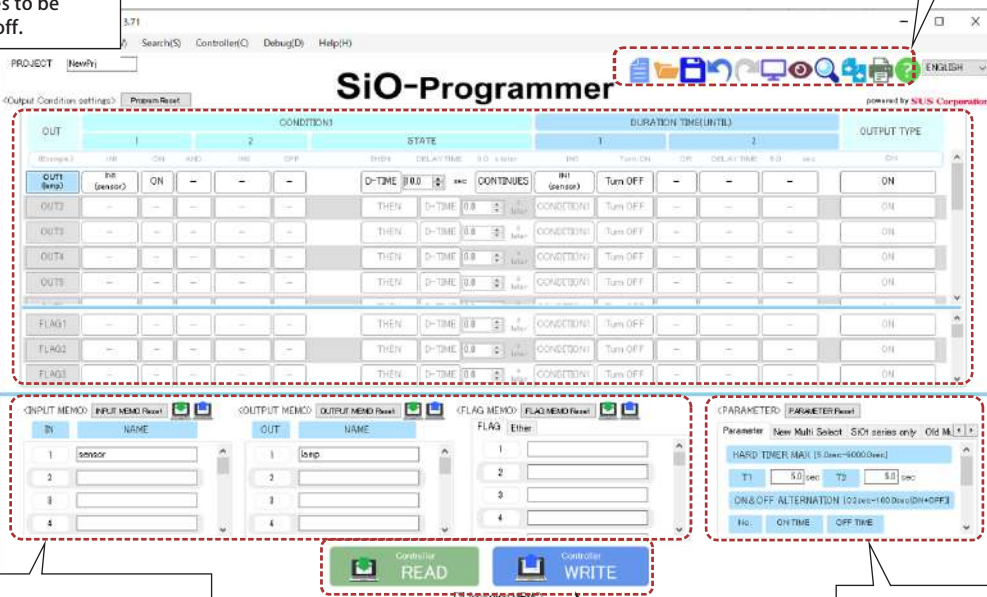
For SiO series

SiO Programmer Set ON/OFF conditions for Input/Output devices

This is selective Windows programming software developed to create and register conditions for controlling Input/Output devices with the SiO controller.

Edit Program
Sets the conditions for output devices to be turned on or off.

Tool Icon
Various functions such as file saving and simulator can be selected.



MEMO
This is the memo field for Input/Output. The contents of the memo will be put into the program.

READ/WRITE Button
Communicates with various SiO controllers to load and register settings.

Other Setting
You can set various parameters such as the IP address of SiOt.

SiO Programmer Main Functions

- 1 Program Edit** This function edits the program to be written to the SiO controller. Edited data can be saved and printed.
- 2 Input/Output Monitor** By connecting the SiO controller to a PC, the status of input/output devices can be monitored.
- 3 Program READ/WRITE** The SiO controller reads programs registered in the SiO controller and writes new programs to the SiO controller.
- 4 Simulation** You can check the operation of the program on a PC without connecting it to the SiO controller.



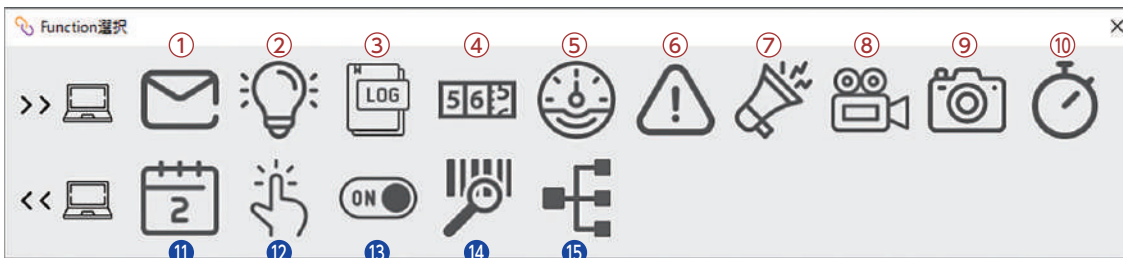
For SiOt/MiO

IoT Programmer

Converts signals from controllers to PC processing

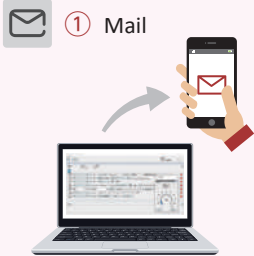

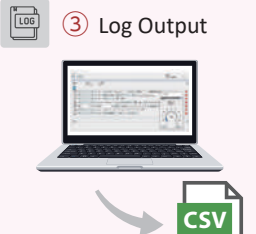


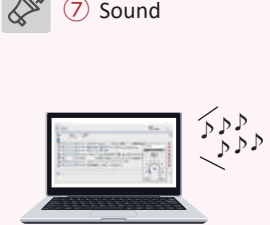


This is a special software for Windows that allows you to "send e-mails" and "save log files" based on signals from SiOt by simply selecting the necessary functions from 15 types of processing (Functions) and setting up the operation.

Function Selection Window



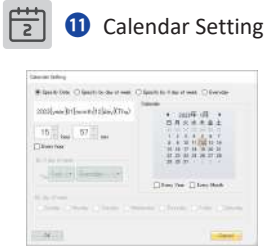
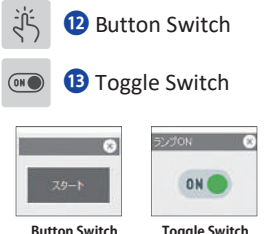
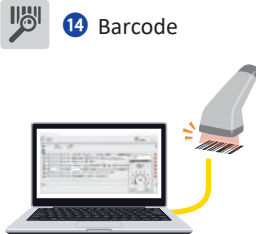
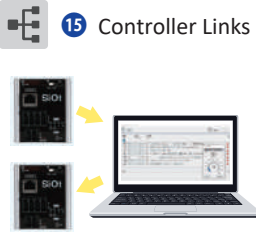
Processing based on signals from SiOt to PC



<p>1 Mail</p>  <p>When the specified controller meets the condition, an e-mail would be sent.</p>	<p>2 Lamp</p> <p>Seven colors of lamps are available.</p>  <p>The I/O (input/output) status of a particular controller is shown with a lamp on the PC display.</p>	<p>3 Log Output</p>  <p>Saves the I/O status of the specified controller in CSV format.</p>	<p>4 Counter</p> <p>5 Indicator</p>  <p>Displays the I/O status of the specified controller using a counter or indicator format on the PC display.</p>
<p>6 Alert Screen</p>  <p>Display a warning window with the specified wording on the PC when the specified controller meets the condition.</p>	<p>7 Sound</p>  <p>Sound is played on the PC when the specified controller meets the conditions.</p>	<p>8 Video Shooting</p> <p>9 Photographing</p>  <p>A camera connected to a PC shoots video before and after or take photo the condition is met.</p>	<p>10 Stopwatch</p>  <p>Measures the time that a specified controller meets a condition, and can be saved in CSV format, useful for measuring tact time, etc.</p>

Sending signals from a PC to SiOt



<p>11 Calendar Setting</p>  <p>Sends a signal to the specified controller once the PC's clock reaches the set date and time.</p>	<p>12 Button Switch</p> <p>13 Toggle Switch</p>  <p>Turns the signal ON/OFF for the specified controller using the button switch or toggle switch displayed on the screen of the PC.</p>	<p>14 Barcode</p>  <p>Sends a signal to the specified controller by reading the set point with a Barcode Scanner connected to a PC.</p>	<p>15 Controller Links</p>  <p>Sends a signal to another controller once the specified controller meets the condition.</p>
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What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

Lineups of various SiO series are available, including the "IoT model" with Ethernet communication function introduced in this catalog, the "SiO model for network" that can control multiple SiO controllers together, and the "standard model" that is used to control single equipment.

What is SiOt

Use Case

Email Sending

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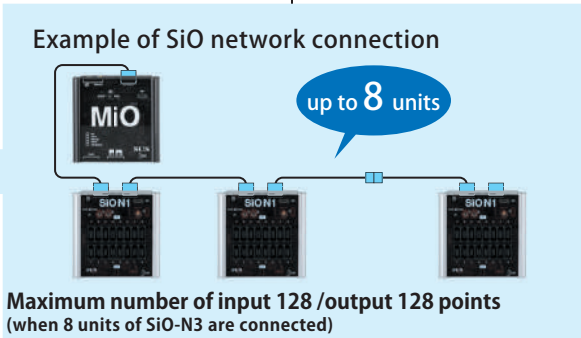

Time Count

Remote Control

Original System

Products

Instruction

Connector	e-CON					
Input / Output Points	Input 2	Output 2	Input 4	Output 2	Input 6	Output 4
<p>IoT</p> <p>The latest model in the SiO series with Ethernet communication function.</p> <p>Through the network IoT is realized by linking with a PC.</p>	<p>MiO</p>  <p>Multi-I/O controller that can connect up to 8 units of SiO-N1 or N3 and also compatible with Ethernet communication.</p>		<p>SiOt</p>  <p>Add Ethernet communication ability to the minimum number of input/output points.</p>		 <p>Example of SiO network connection</p> <p>up to 8 units</p> <p>Maximum number of input 128 / output 128 points (when 8 units of SiO-N3 are connected)</p>	
<p>SiO Net Work</p> <p>Up to eight SiO model for net work (SiO-N1/N3) can be connected and managed together to build facilities of a larger scale.</p>			<p>SiO3.2</p>  <p>Input 3 Output 2</p> <p>The smallest model in the series in size and number of input/output points.</p>			
<p>Standard</p> <p>Best suited for simple kaizen and motorized karakuri, which can be handled with a small points of input/output single controller.</p>						

Choose, Plug in and Go! Convenient e-CON Option

The SiO series provides a variety of input/output devices with e-CON connectors pre-installed as options. For the latest lineup, please refer to P.78~ or the "Compatible Devices" link at the top of the SiO product page on the FA website (<https://fa.sus.co.jp/>).



Switch Box








Photoelectric Sensor (Refraction)



Lamp 3 colors (Red · Yellow · Green)



Voice Player

		Flat Cable	
Input	Output	Input	Output
8	8	16	16
8	8	8	8
<p>SiOt1</p>  <p>Standard input 8 / output 8 model with Ethernet communication ability.</p>	<p>SiOt3</p>  <p>Multi-use input 16 / output 16 model with Ethernet communication ability.</p>	 <p>SiO-C</p> <p>Highly flexible model with a terminal block selected for your needs.</p>	
<p>SiO-N1</p>  <p>The first model of SiO Network. Of course, it can also be used as a stand-alone model.</p>	<p>SiO-N3</p>  <p>Largest model in single unit input 16 / output 16 points, and can be connected by MiO.</p>		

Check various cases of use from next page



Check the SiO catalog for input/output control on a stand alone system!

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

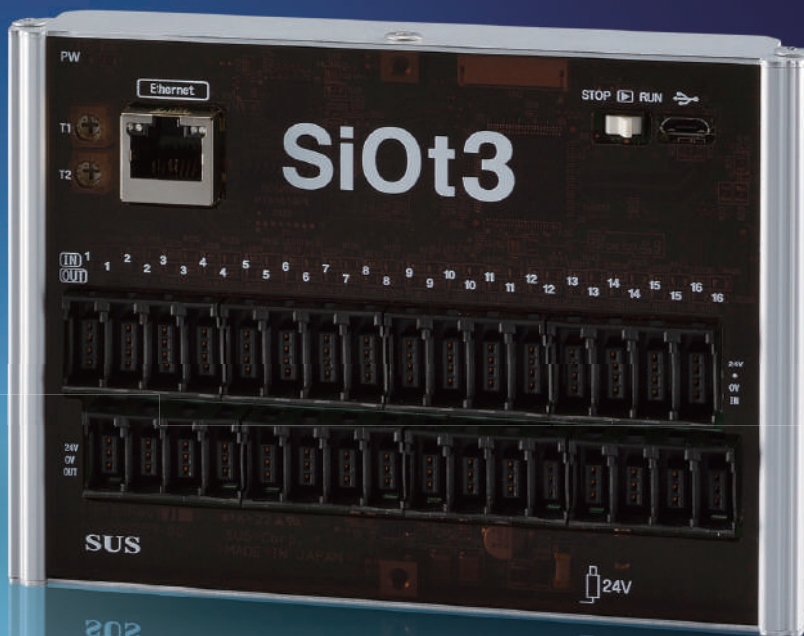
Remote Control

Original System

Products

Instruction





Use Case of SiOt

- Email Sending P.12
- Visualization P.26
- Logfile Saving P.37
- Quantity Count P.44
- Camera Recording P.51
- Time Count P.55
- Remote Control P.62
- Original System P.69

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

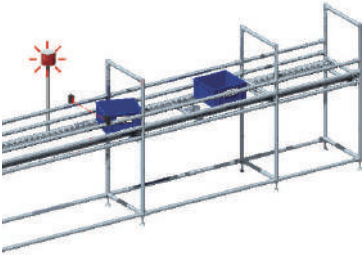
Remote Control

Original System

Products

Instruction

1 Send a mail when the workpiece was stuck on line.



P.14

2 Send a mail when a specified number of workpieces are sent.



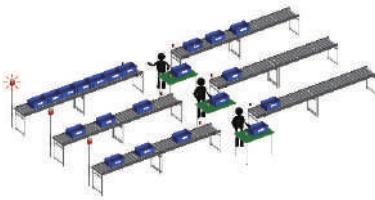
P.14

3 Send a mail when the switch button has been pressed.



P.15

4 Send a mail when the workpieces are stuck.



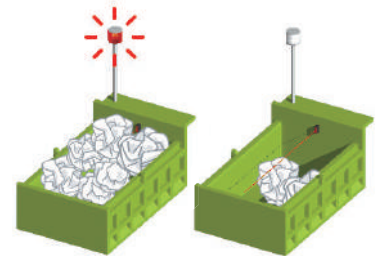
P.15

5 Send a mail when all the workpieces are finished to operate.



P.16

6 Send a mail when the workpieces are stacked up to a certain height.



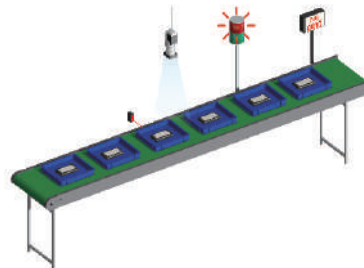
P.16

7 Send a mail when there is less material left.



P.17

8 Send a mail when the number of failures exceeds a certain number.



P.17

9 Send a mail when the temperature exceeds a certain temperature.



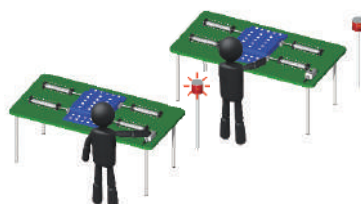
P.18

10 Send a mail when the error occurs.



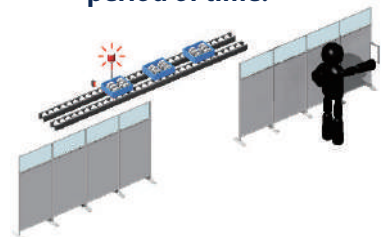
P.18

11 Send a mail when the call button has been pressed.



P.19

12 Send a mail when the workpiece has been left unattended for a certain period of time.



P.19

13 Send a mail when the AGV arrived.



P.20

14 Send a mail when the AGV failed delivery.



P.20

15 Send a mail when the emergency stop button has been hit.



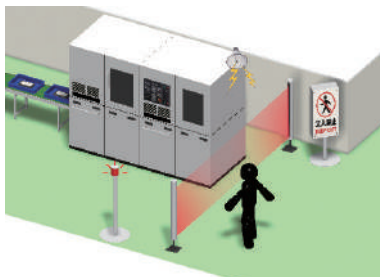
P.21

16 Send a mail when the gate has been opened or closed.



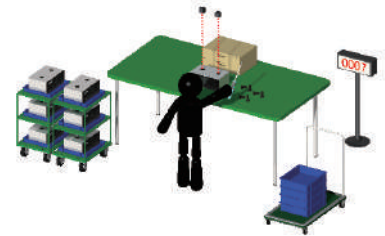
P.21

17 Sends a mail when entry into a restricted area is detected.



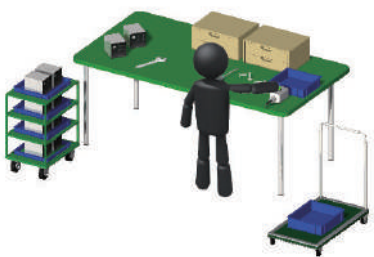
P.22

18 Send a mail when the specified number of assemblies have been completed.



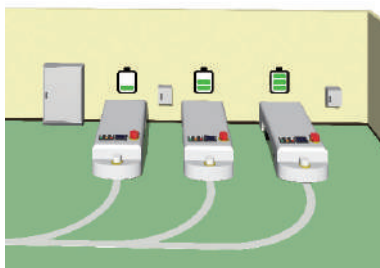
P.22

19 Send a mail when the Operation End Button has been pressed.



P.23

20 Send a mail when the AGV is fully charged.



P.23

21 Send a mail when workpieces stuck on lines.



P.24

22 Send a mail to staff by UPS when the power blackout.



P.24

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

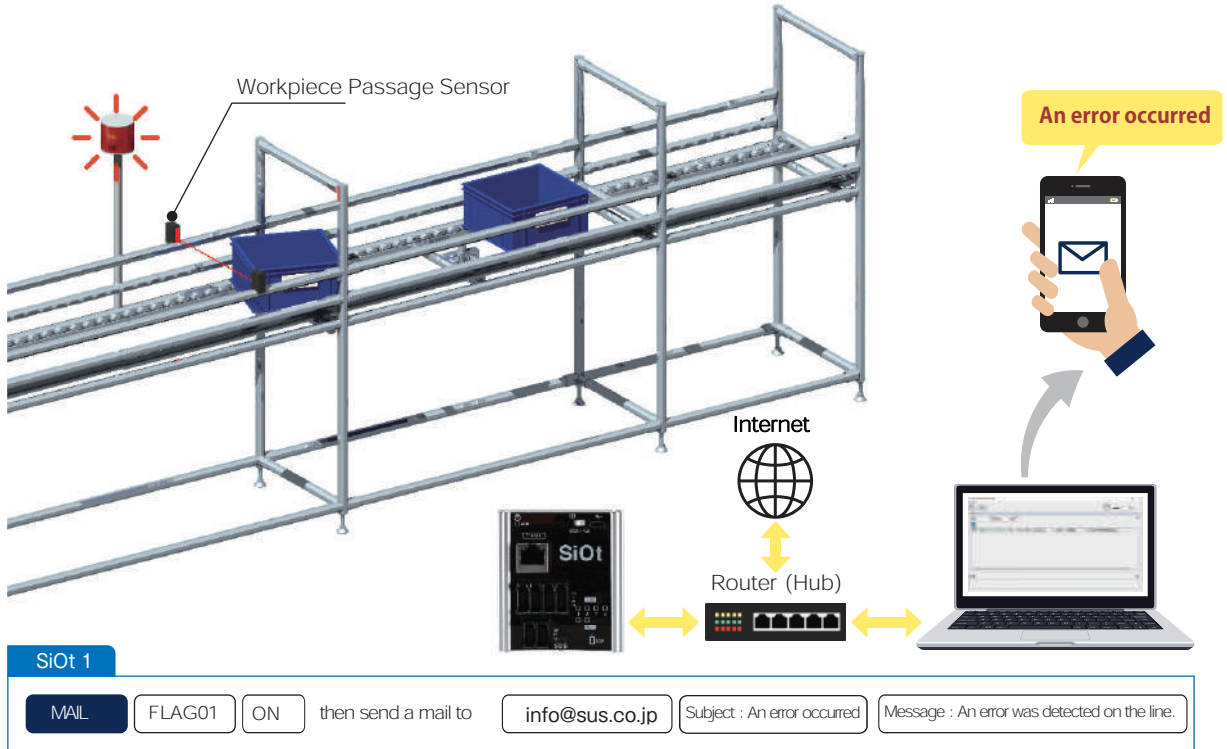
Instruction

1

Send a mail to staff when the workpiece was stuck on line.

You need

- SiOt
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- Internet Connection

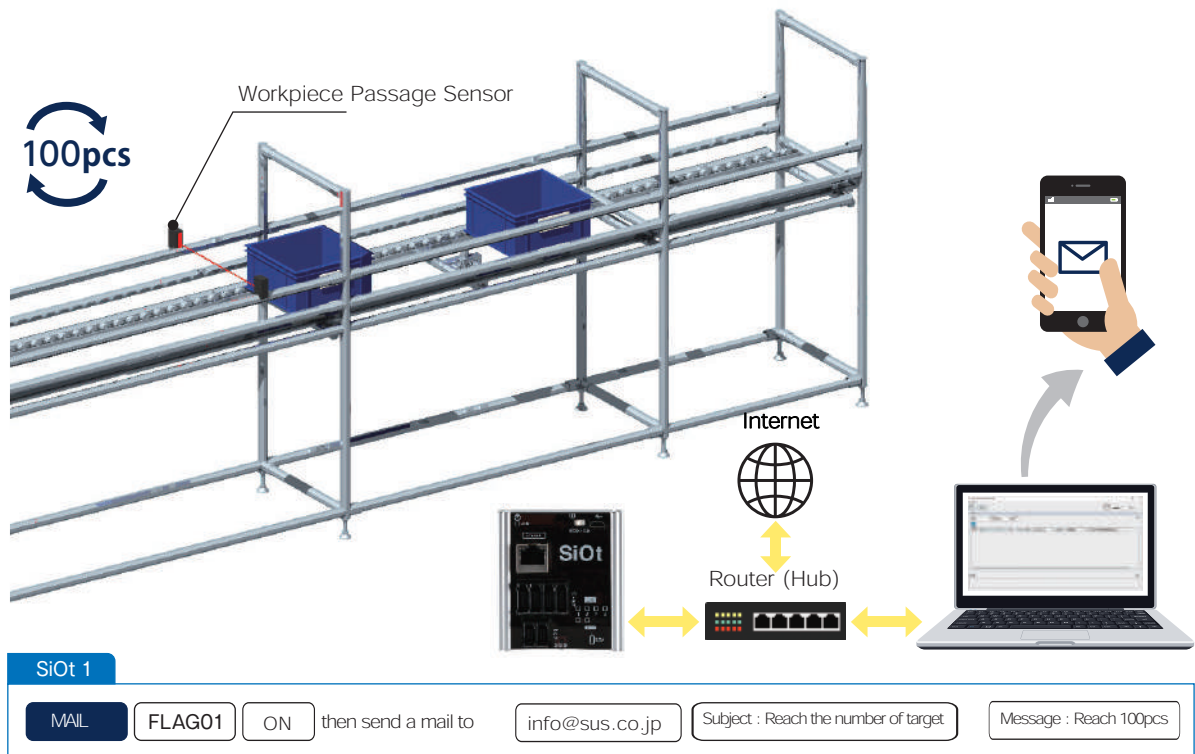


2

Send a mail to staff when a specified number of workpieces are sent.

You need

- SiOt
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- Internet Connection

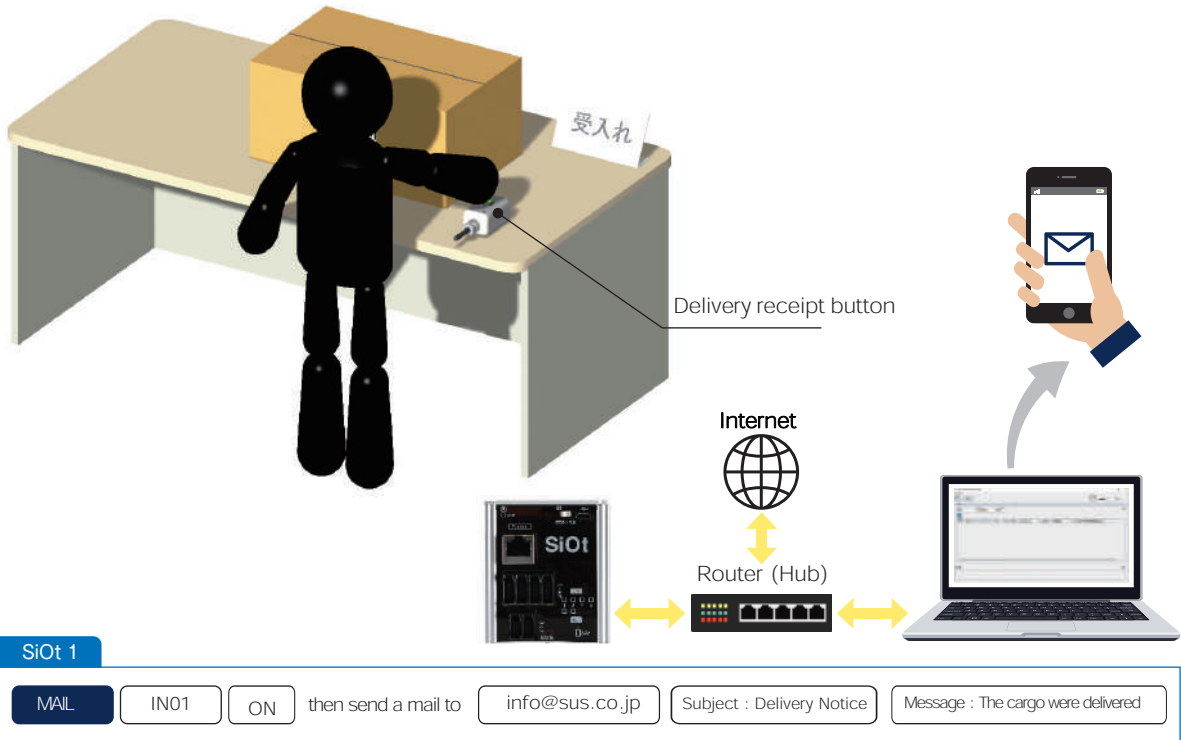


3

Send a mail to staff when the switch button has been pressed.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Switch
- Router *Not required when connecting SiOt directly to a PC.
- Internet Connection

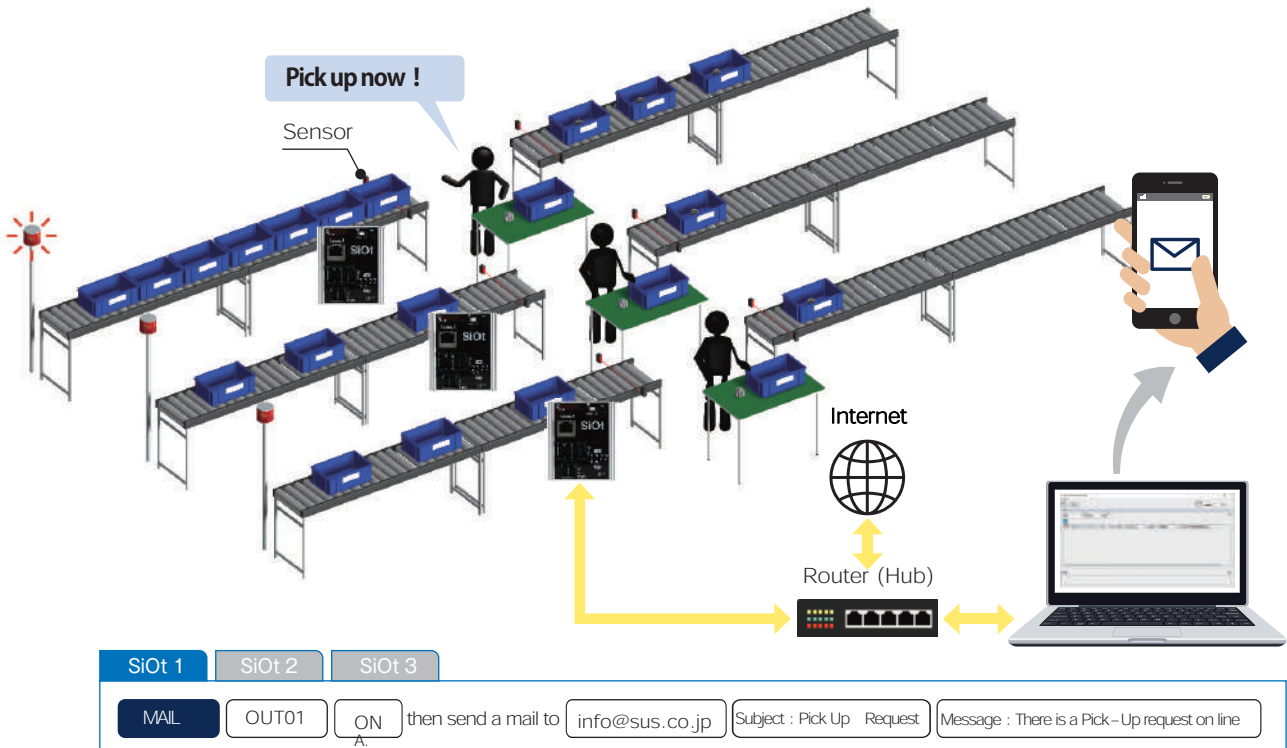


4

Send a mail to staff when the workpieces are stuck.

You need

- SiOt
- LAN Cable
- Sensor
- PC (IoTProgrammer)
- Switch
- Router *Not required when connecting SiOt directly to a PC.
- Lamp
- Internet Connection



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

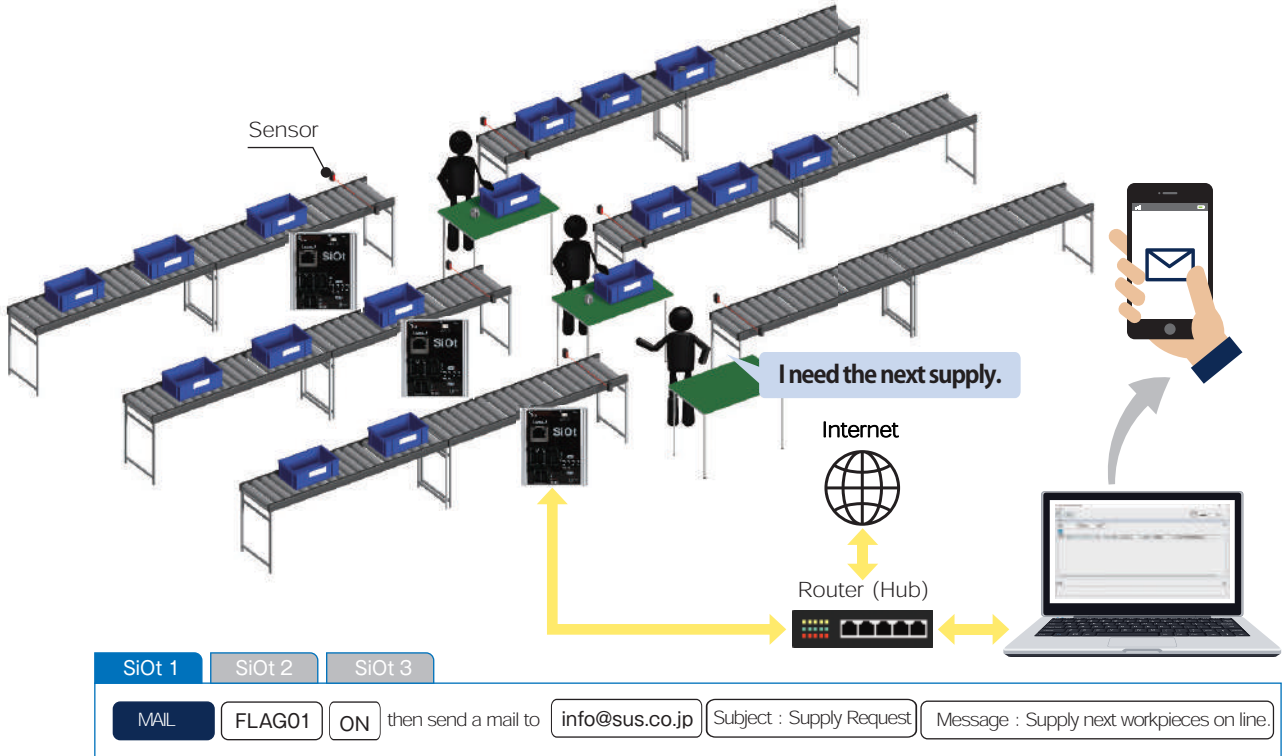
Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

5 Send a mail to staff when all the workpieces are finished to operate.

You need

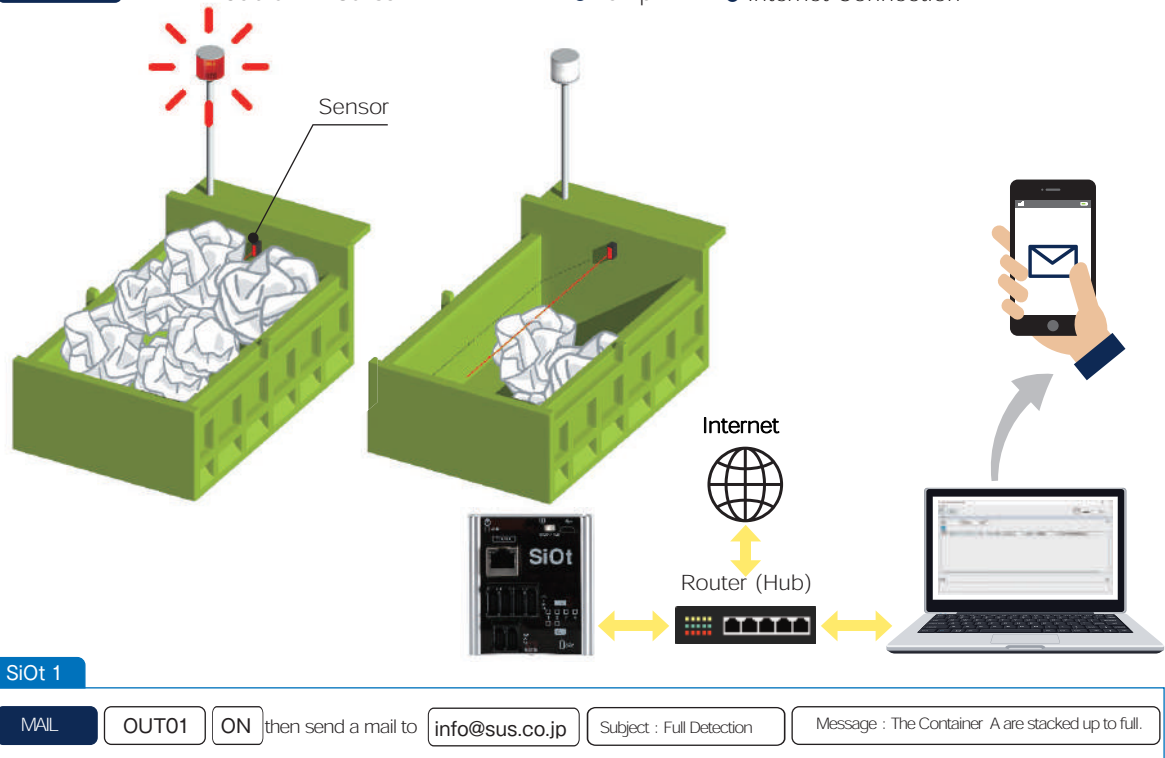
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Sensor
- Router *Not required when connecting SiOt directly to a PC.
- Internet Connection



6 Send a mail to staff when the workpieces are stacked up to a certain height.

You need

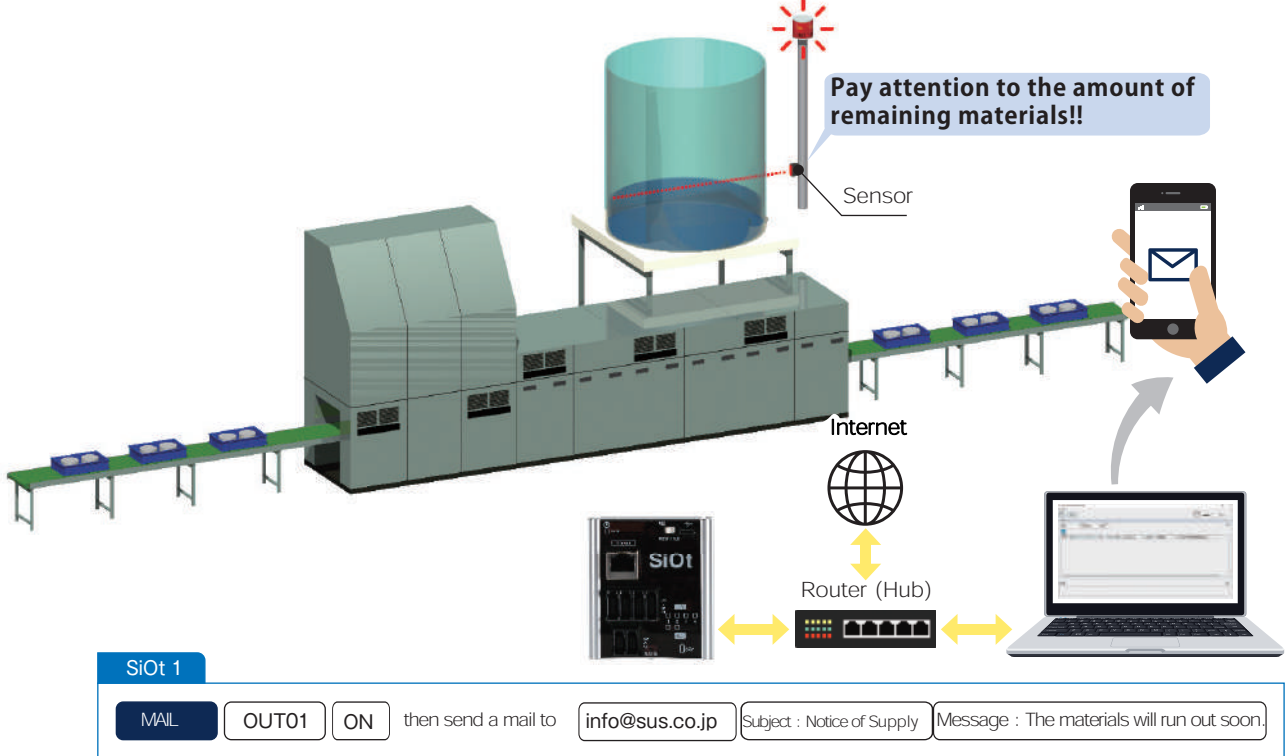
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Sensor
- Router *Not required when connecting SiOt directly to a PC.
- Lamp
- Internet Connection



7 Send a mail to staff when there is less material left.

You need

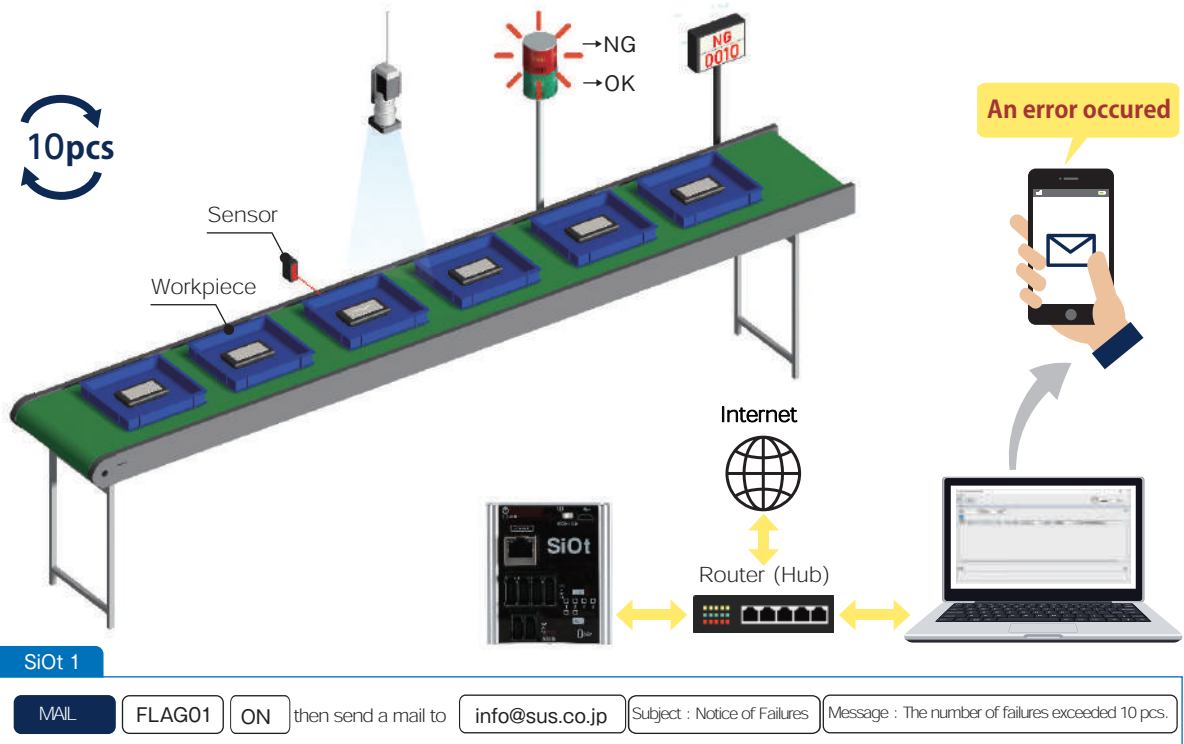
- SiOt
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- Lamp
- Internet Connection



8 Send a mail to staff when the number of failures exceeds a certain number.

You need

- SiOt
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- Camera Sensor
- Lamp
- Internet Connection



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

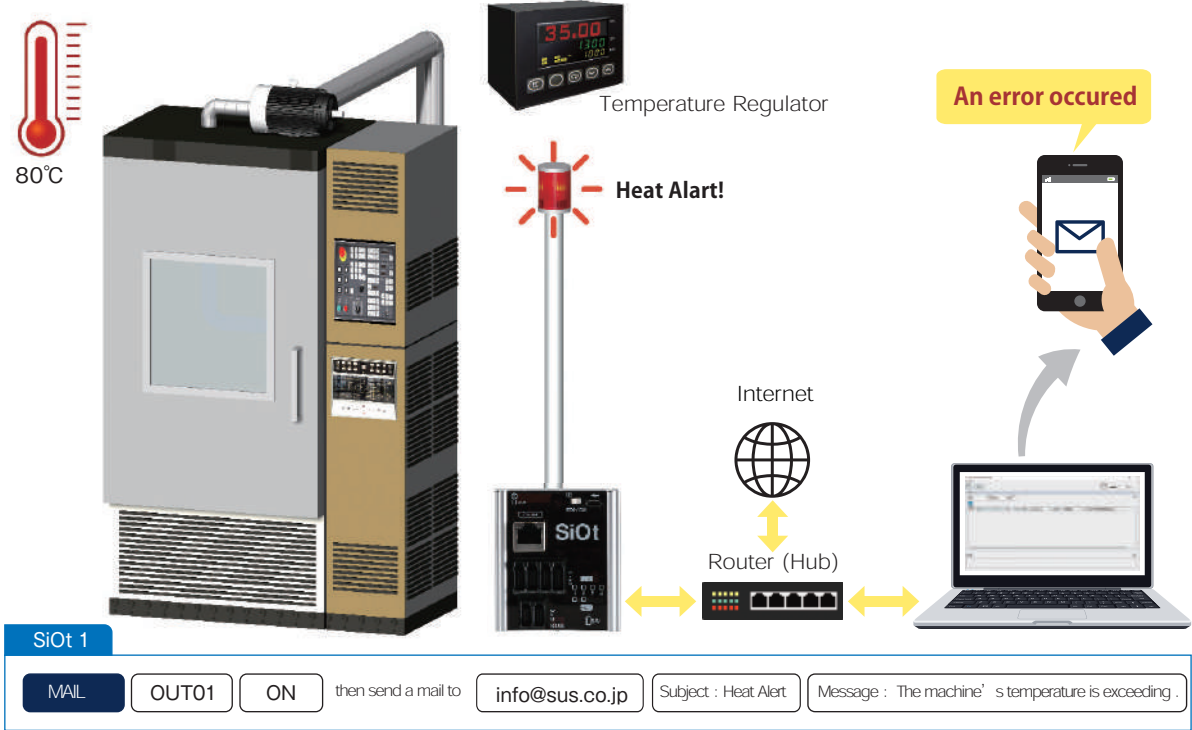
Products

Instruction

9 Send a mail to staff when the temperature exceeds a certain temperature.

You need

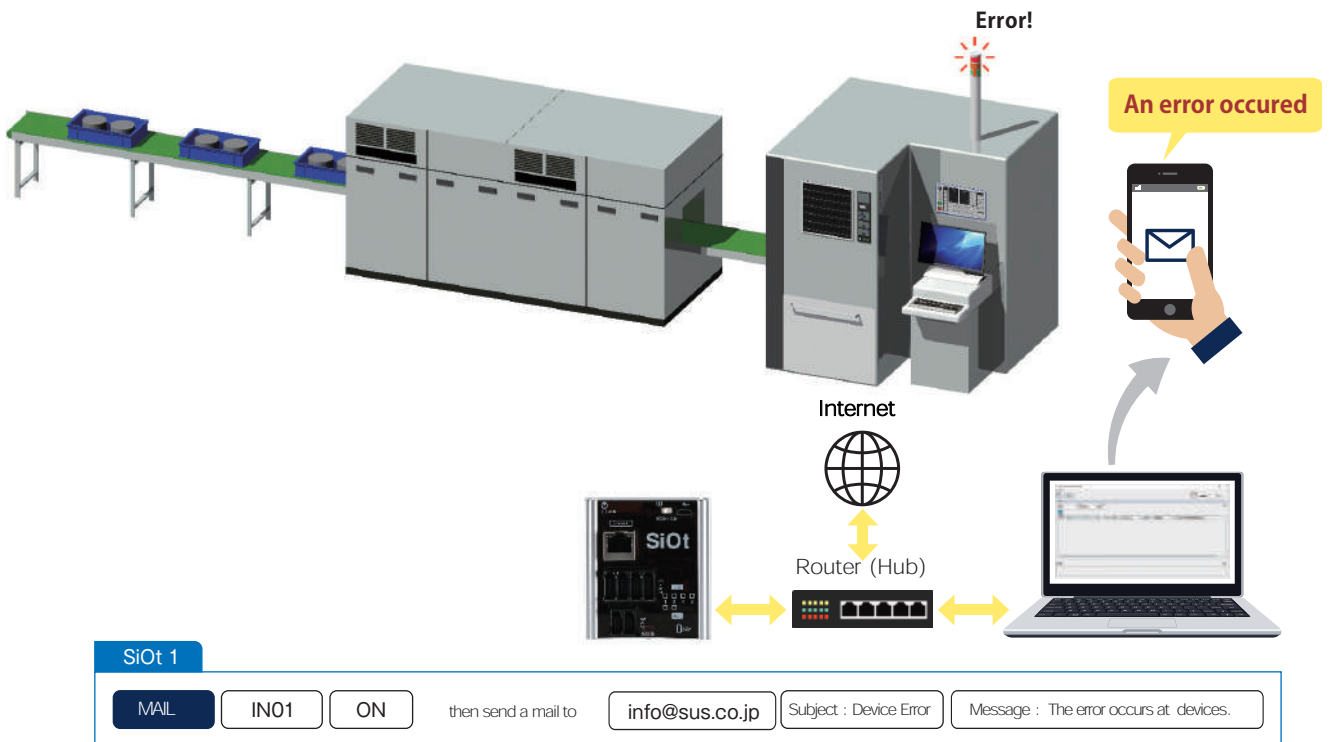
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Temperature Regulator
- Router *Not required when connecting SiOt directly to a PC.
- Lamp
- Internet Connection



10 Send a mail to staff when the error occurs.

You need

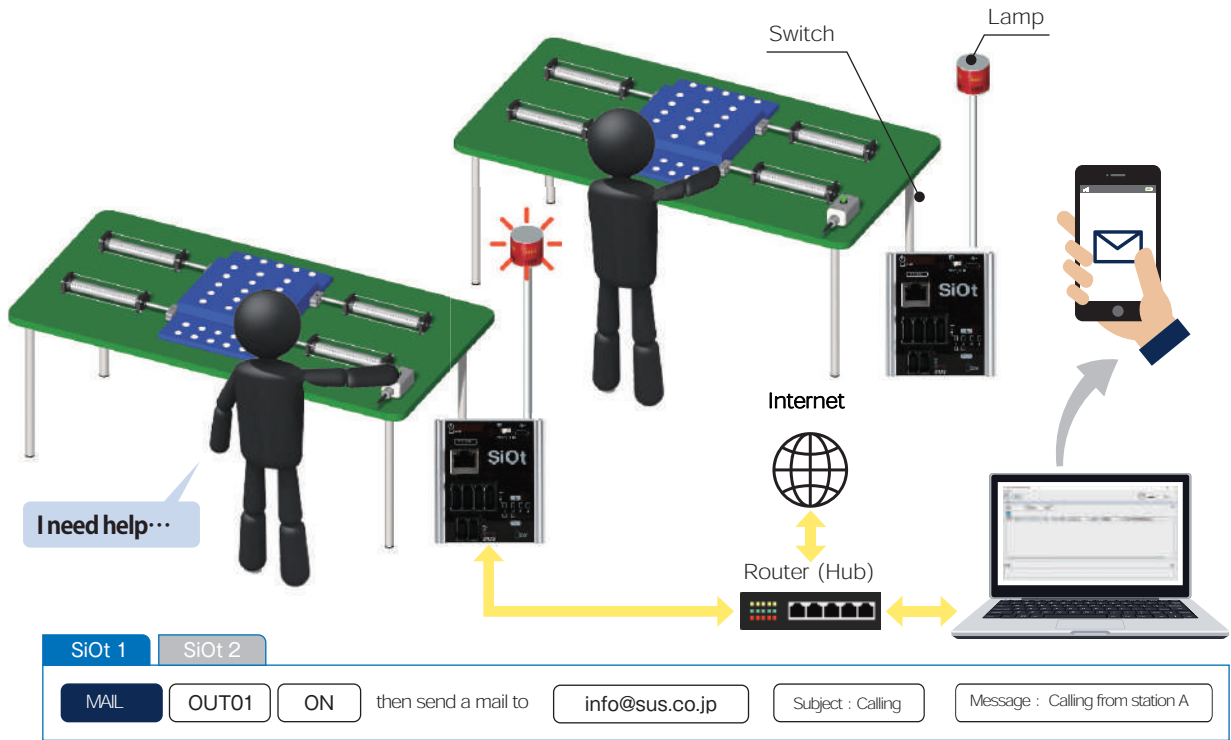
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- IO cable for Device Connection
- Router *Not required when connecting SiOt directly to a PC
- Internet Connection



11 Send a mail to staff when the call button has been pressed.

You need

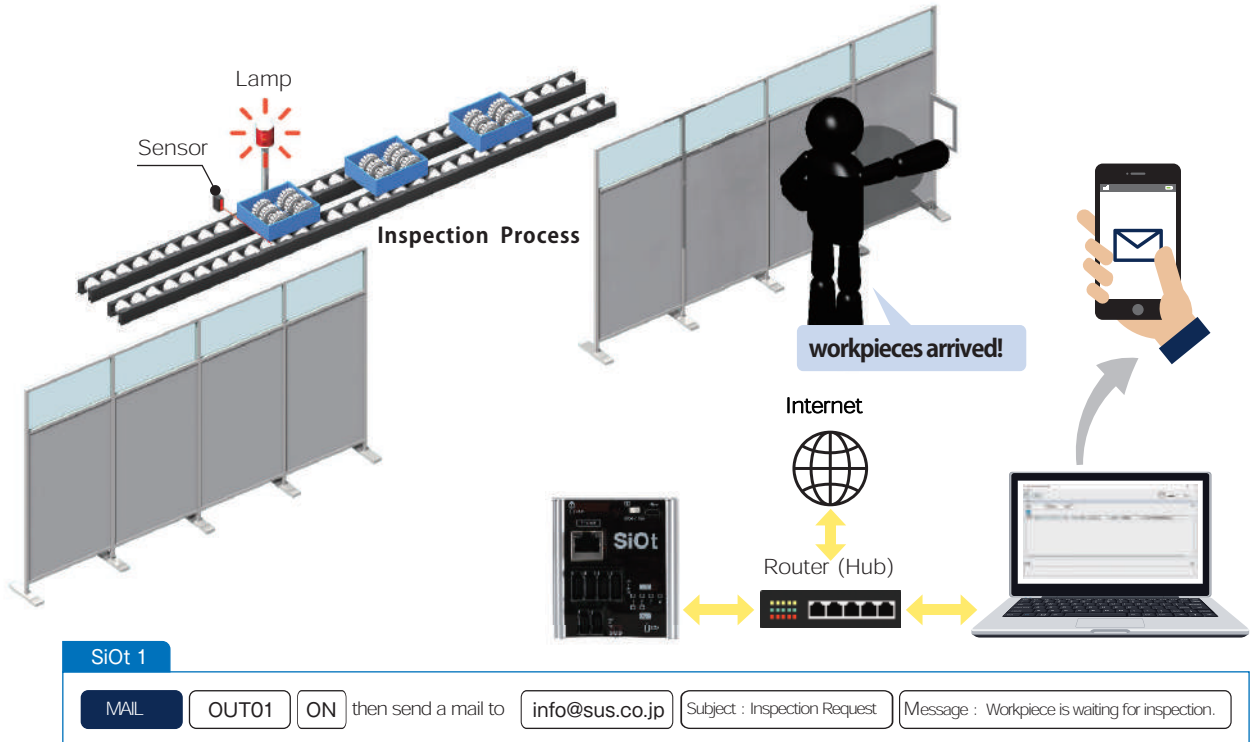
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Switch
- Router *Not required when connecting SiOt directly to a PC.
- Lamp
- Internet Connection



12 Send a mail to staff when the workpiece has been left unattended for a certain period of time.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Sensor
- Lamp
- Router *Not required when connecting SiOt directly to a PC.
- Internet Connection



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

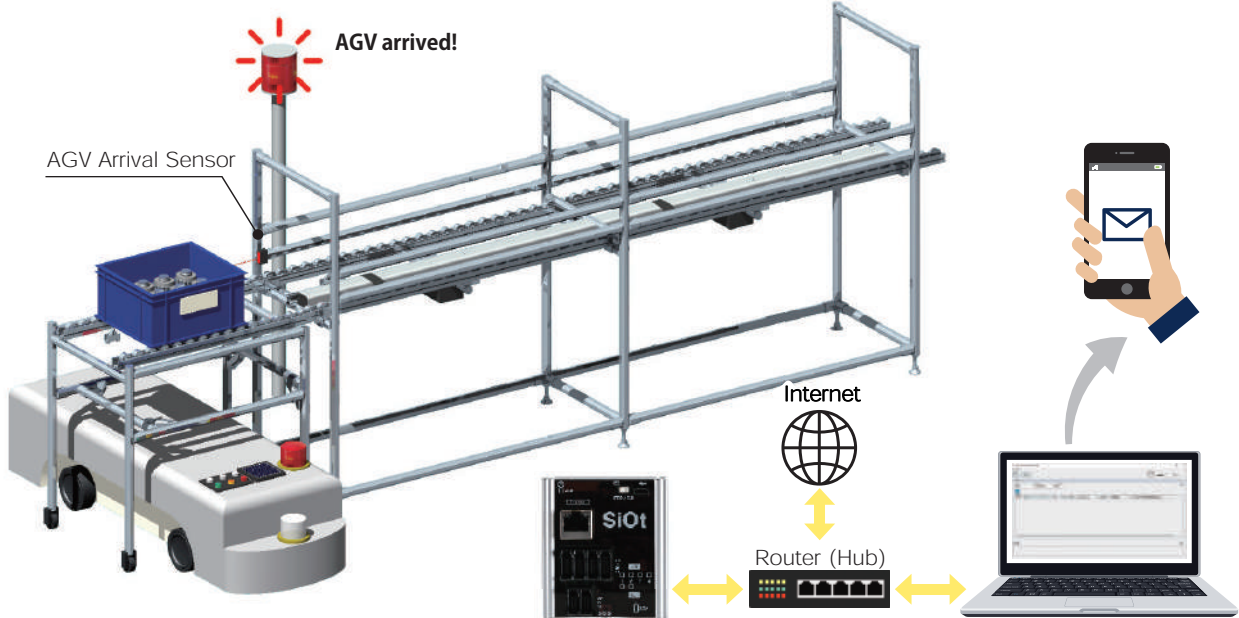
Original System

Products

Instruction

13 Send a mail to staff when the AGV arrived.

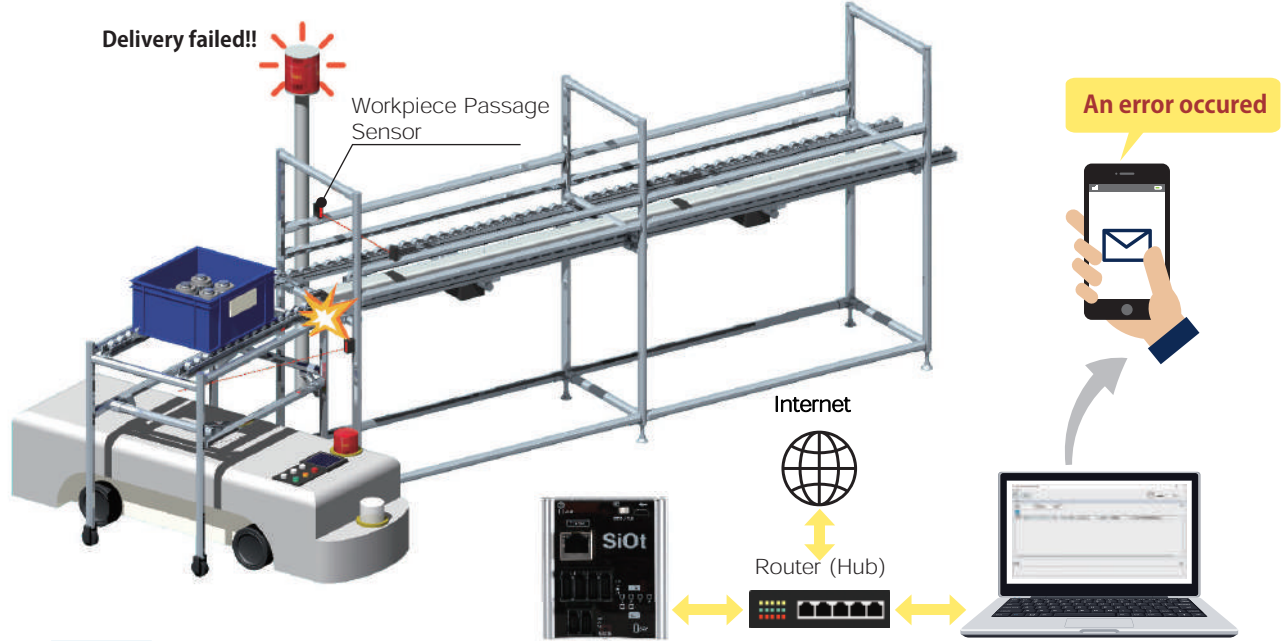
- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Sensor
 - Router *Not required when connecting SiOt directly to a PC.
 - Lamp
 - Internet Connection



```
SiOt 1
MAIL OUT01 ON then send a mail to info@sus.co.jp Subject : AGV arrival Message : AGV arrived on Line A
```

14 Send a mail to staff when the AGV failed delivery.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Sensor
 - Router *Not required when connecting SiOt directly to a PC.
 - Lamp
 - Internet Connection

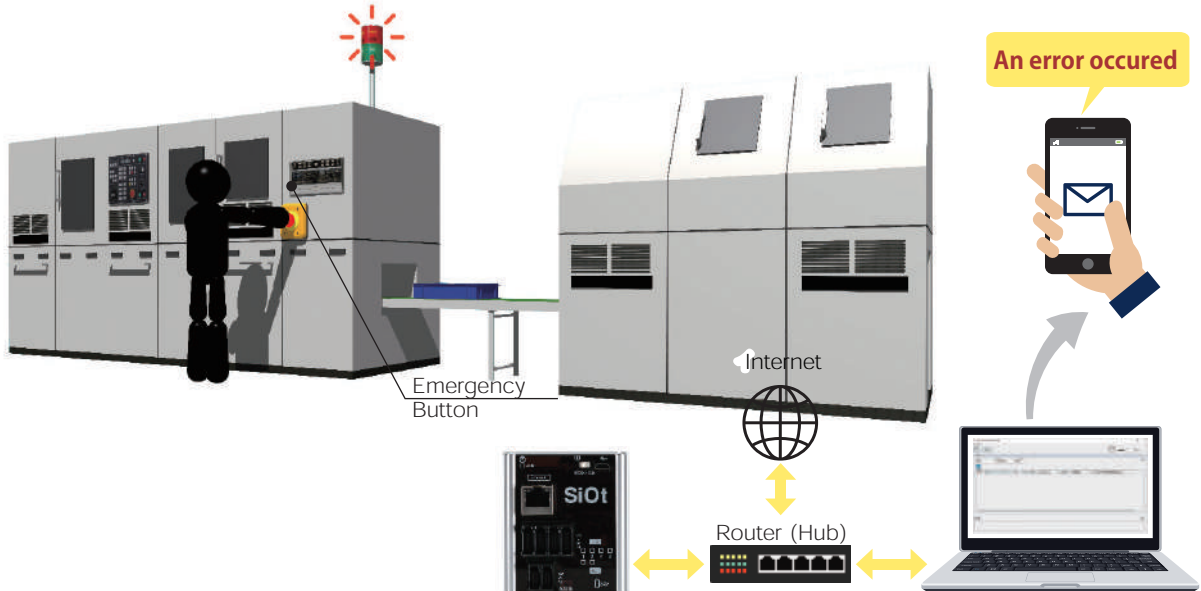


```
SiOt 1
MAIL OUT01 ON then send a mail to info@sus.co.jp Subject : Delivery failed Message : An error occurred in receiving the workpieces
```

15 Send a mail to staff when the emergency stop button has been hit.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- IO cable for Device Connection
- Router *Not required when connecting SiOt directly to a PC.
- Router (Hub)
- Internet Connection



SiOt 1

MAIL IN01 OFF then send a mail to info@sus.co.jp Subject : Emergency Stop Message : The emergency button has been pressed at device B.

16 Send a mail to staff when the gate has been opened or closed.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Sensor
- Router *Not required when connecting SiOt directly to a PC.
- Router (Hub)
- Internet Connection



SiOt 1

MAIL IN01 ON send a mail to info@sus.co.jp Subject : Gate Open-Close Message : The emergency gate has been opened or closed.

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

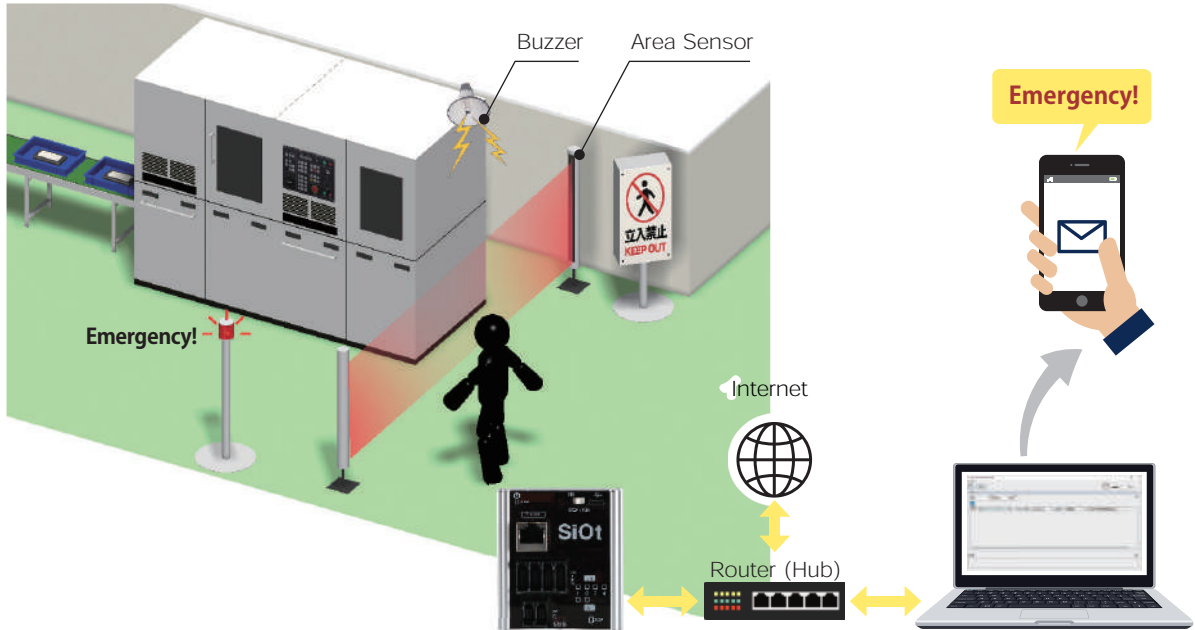
Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

17 Sends a mail to staff when entry into a restricted area is detected.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Area Sensor
 - Router
 - Lamp
 - Buzzer
 - Internet Connection
- *Not required when connecting SiOt directly to a PC.



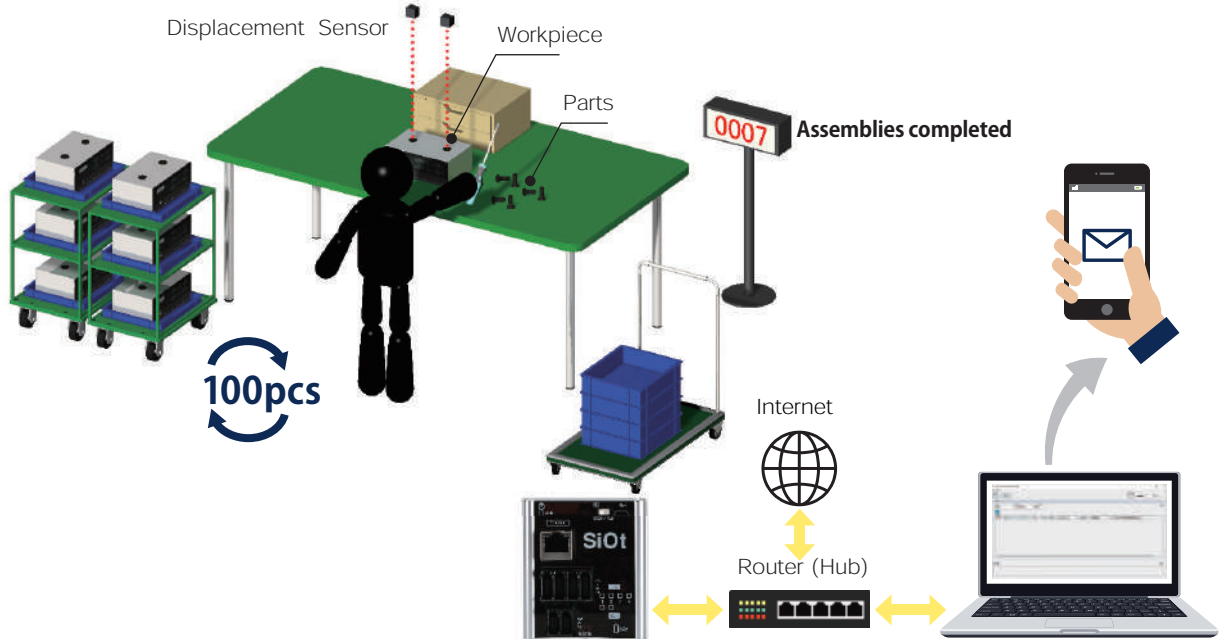
```

SiOt 1
MAIL OUT01 ON then send a mail to info@sus.co.jp Subject : Emergency Alarm Message : The intrusion into the restricted area is detected.
    
```

18 Send a mail to staff when the specified number of assemblies have been completed.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Displacement Sensor
 - Router
 - Internet Connection
- Not required when connecting SiOt directly to a PC.



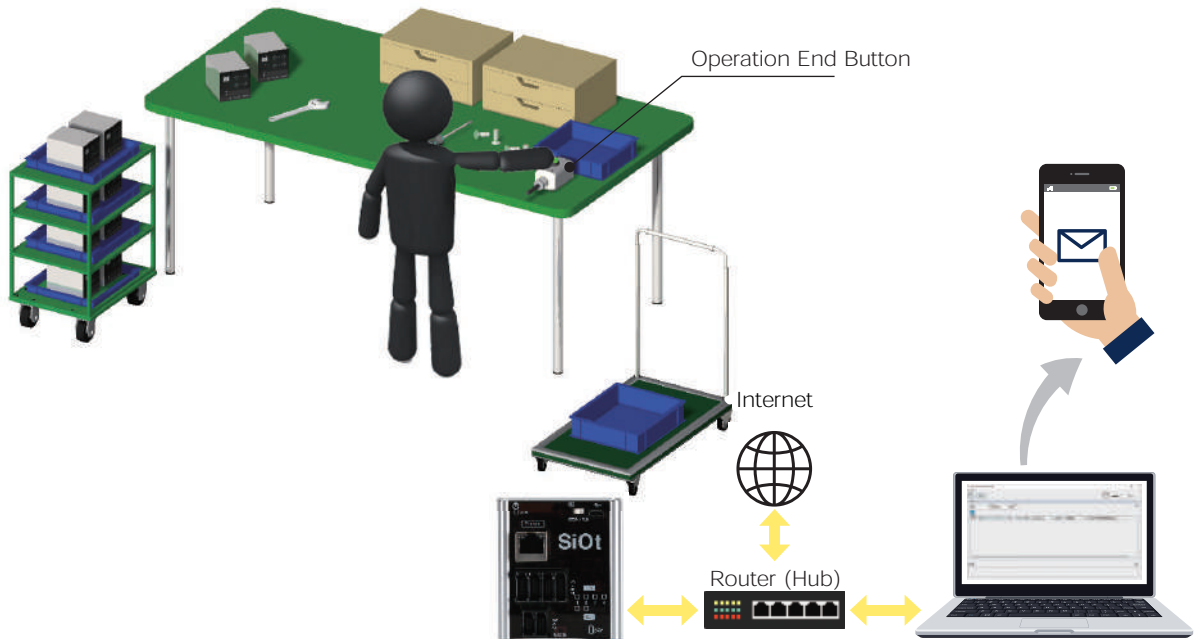
```

SiOt 1
MAIL FLAG01 ON then send a mail to info@sus.co.jp Subject : Assemblies Completed Message : The assemblies of process B have been completed.
    
```


19 Send a mail to staff when the Operation End Button has been pressed.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Switch
 - Router
 - Internet Connection
- *Not required when connecting SiOt directly to a PC.



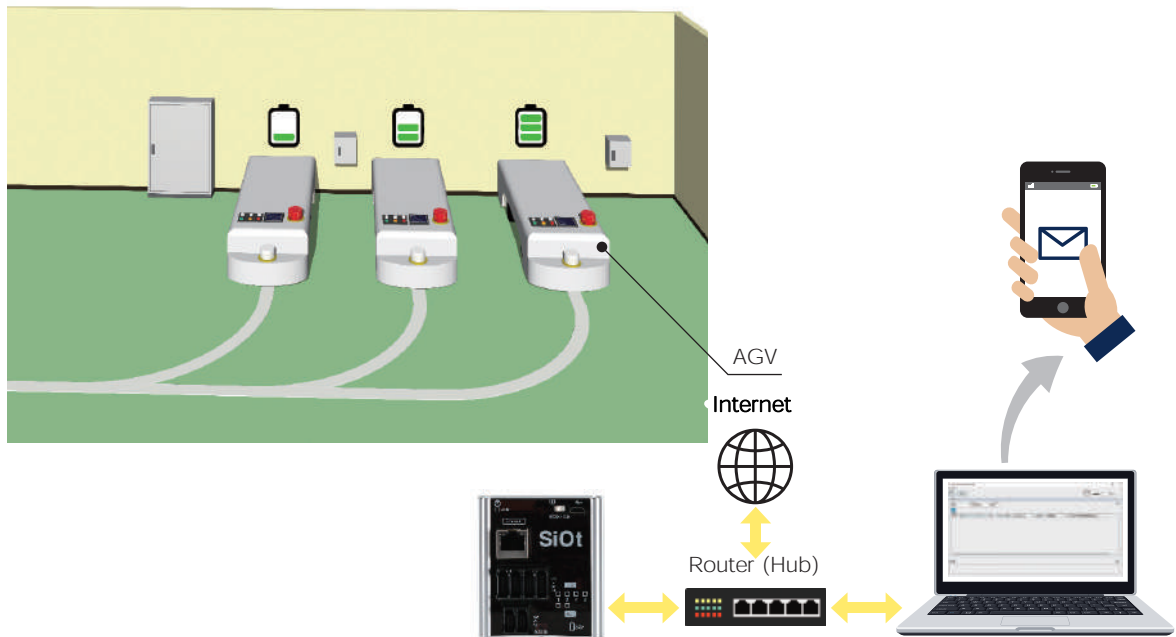
SiOt 1

MAIL IN01 ON then send a mail to info@sus.co.jp Subject : Operation End Message : Today's operation A has been finished.

20 Send a mail to staff when the AGV is fully charged.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for for AGV
 - Router
 - Internet Connection
- *Not required when connecting SiOt directly to a PC.



SiOt 1

MAIL IN02 ON then send a mail to info@sus.co.jp Subject : Fully charged Message : AGV 2 is fully charged.

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

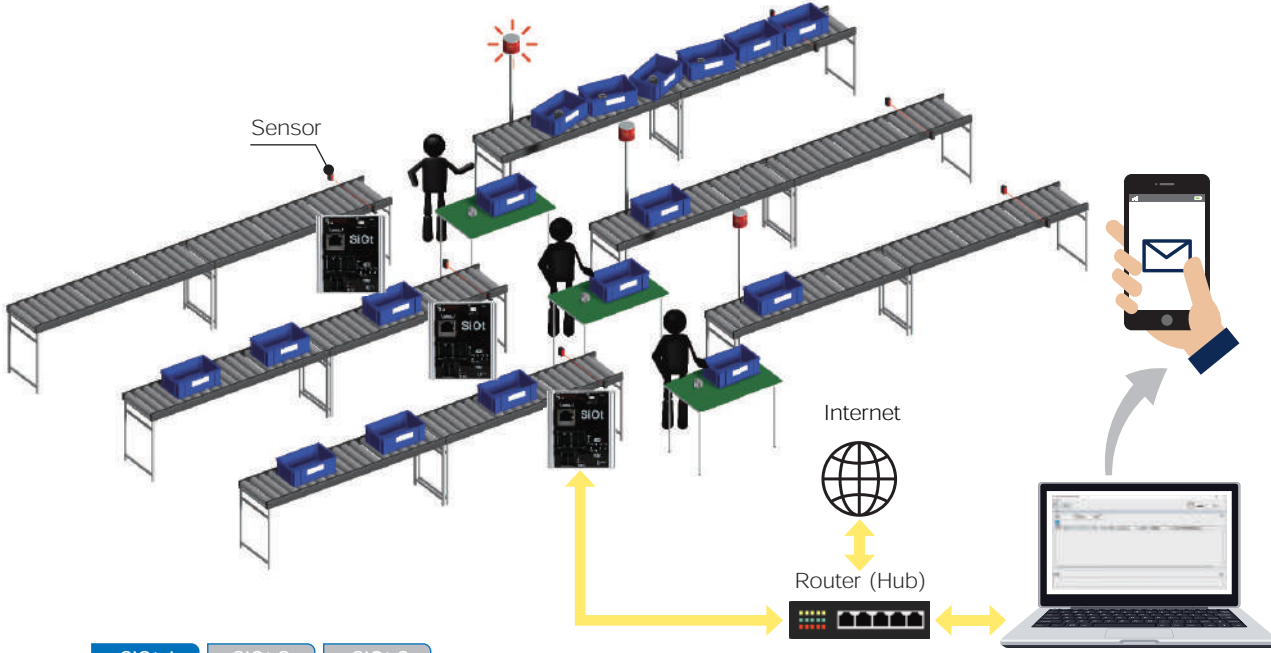
Original System

Products

Instruction

21 Send a mail to staff when workpieces stuck on lines.

- You need**
- SiOt
 - LAN Cable
 - PC ((IoTProgrammer)
 - Sensor
 - Router *Not required when connecting SiOt directly to a PC.
 - Internet Connection

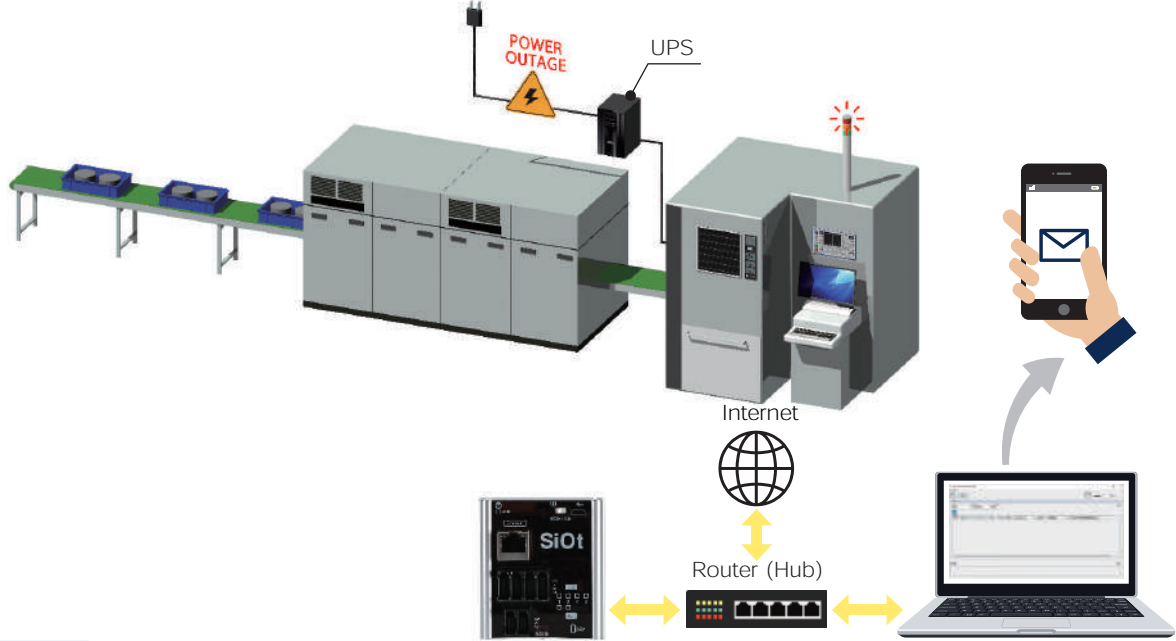


SiOt 1 SiOt 2 SiOt 3

MAIL FLAG01 ON then send a mail to info@sus.co.jp Subject : workpieces stuck Message : Stuck detected on Line A.

22 Send a mail to staff by UPS when the power blackout.

- You need**
- SiOt
 - LAN Cable
 - PC(IoTProgrammer)
 - UPS
 - Router *Not required when connecting SiOt directly to a PC.
 - IO cable for UPS Connection
 - Internet Connection



SiOt 1

MAIL IN01 ON then send a mail to info@sus.co.jp Subject : Blackout Message : Blackout detected at device.

What is SiOt

Use Case

Email
Sending

Visuali-
zation

Logfile
Saving

Quantity
Count

Camera
Recording

Time
Count

Remote
Control

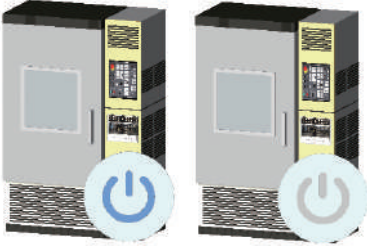
Original
System

Products

Instruction

What is SiOt
Use Case

23 Display the status of each devices by lights.



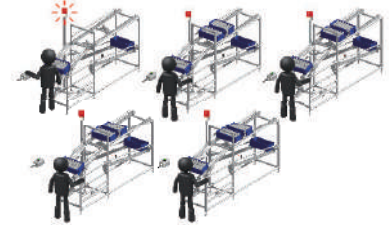
P.28

24 Display the status whether there is anything on each chuters by lights on PC.



P.28

25 Display the status by lights which chuter does it need to be complemented on PC.



P.29

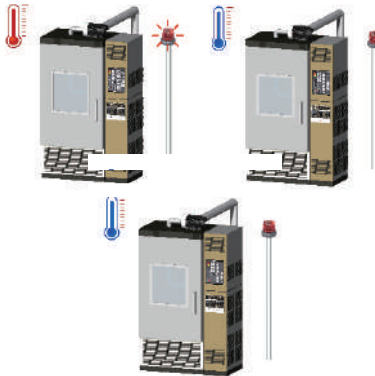
Email Sending
Visualization

26 Display the status whether stations reach to target quantity of process completed.



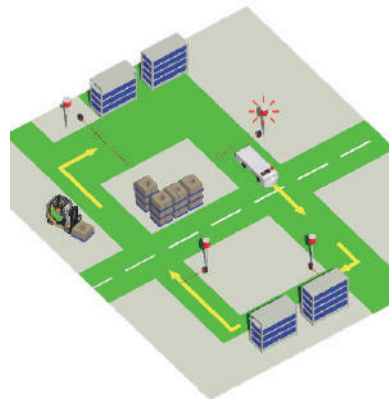
P.29

27 Display the status on PC when the temperature exceeds a certain temperature.



P.30

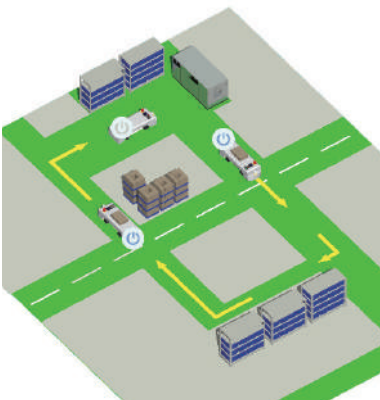
28 Display the status of trace of AGV on PC.



P.30

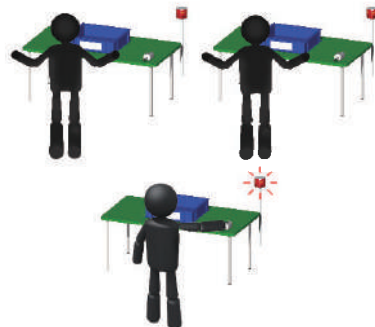
Logfile Saving
Quantity Count
Camera Recording
Time Count
Remote Control

29 Display the status of AGV on PC.



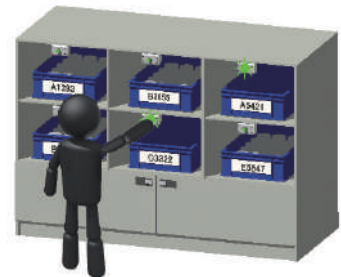
P.31

30 Display the status which station's call button has been pressed on PC.



P.31

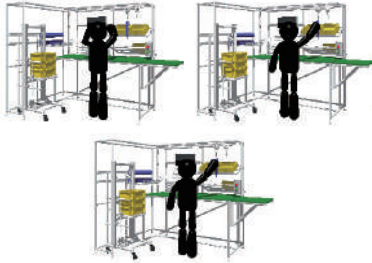
31 Display the status of items which need to be supplied on PC.



P.32

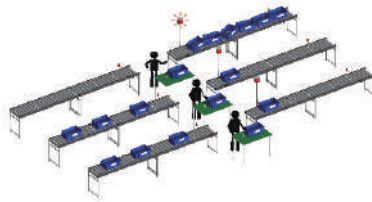
Original System
Products
Instruction

32 Display the status of station which has been late in operation on PC.



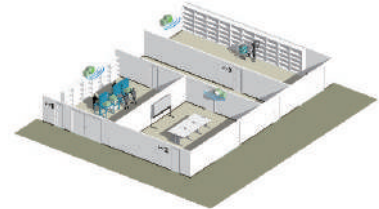
P.32

33 Display the status of station which has been stuck with workpieces.



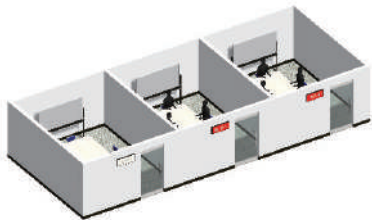
P.33

34 Display the status of area whether there are operators.



P.33

35 Display the status of meeting room whether they are in use / vacant.



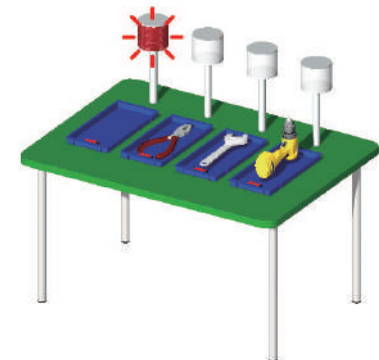
P.34

36 Display the status of restroom whether they are occupied / vacant.



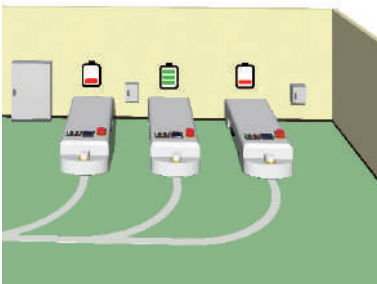
P.34

37 Display the status of tools which is in use on PC.



P.35

38 Display the charging status of AGV on PC.



P.35

39 Display the equipment status of aging or testing on PC.



P.36

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

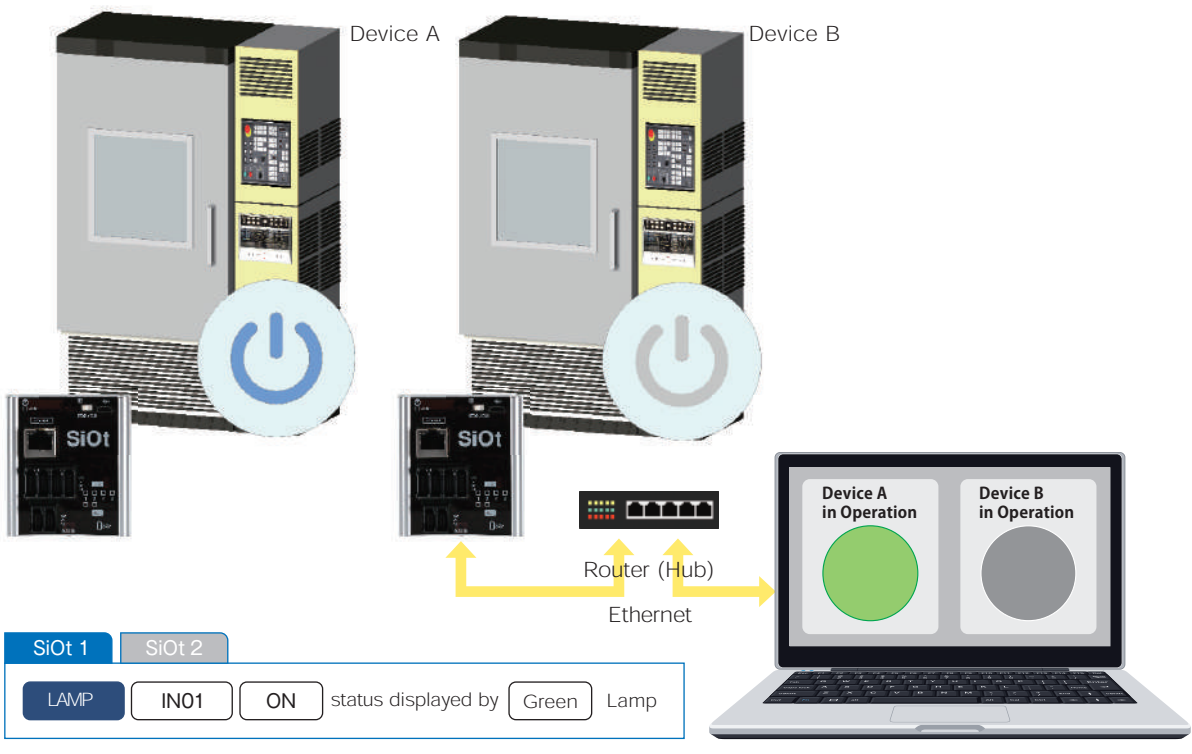
Products

Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

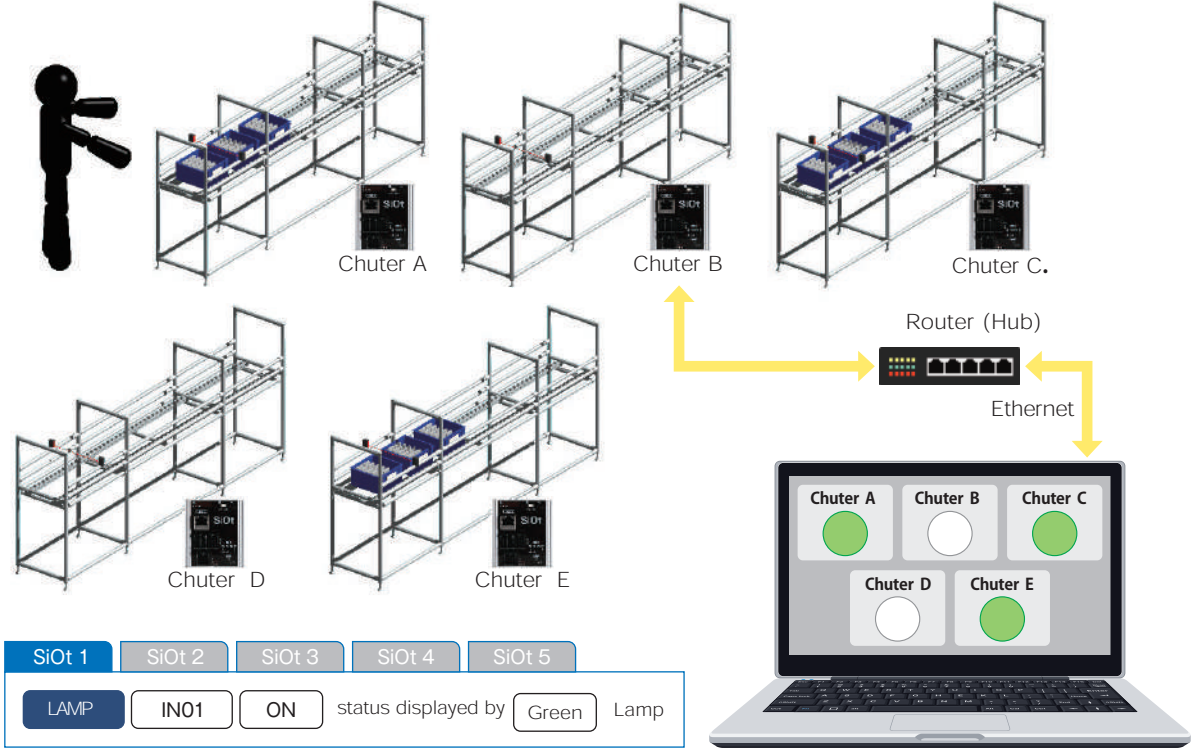
23 Display the status of each devices by lights.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for Device Connection
 - Router *Not required when connecting SiOt directly to a PC.



24 Display the status whether there is anything on each chuters by lights on PC.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router *Not required when connecting SiOt directly to a PC.

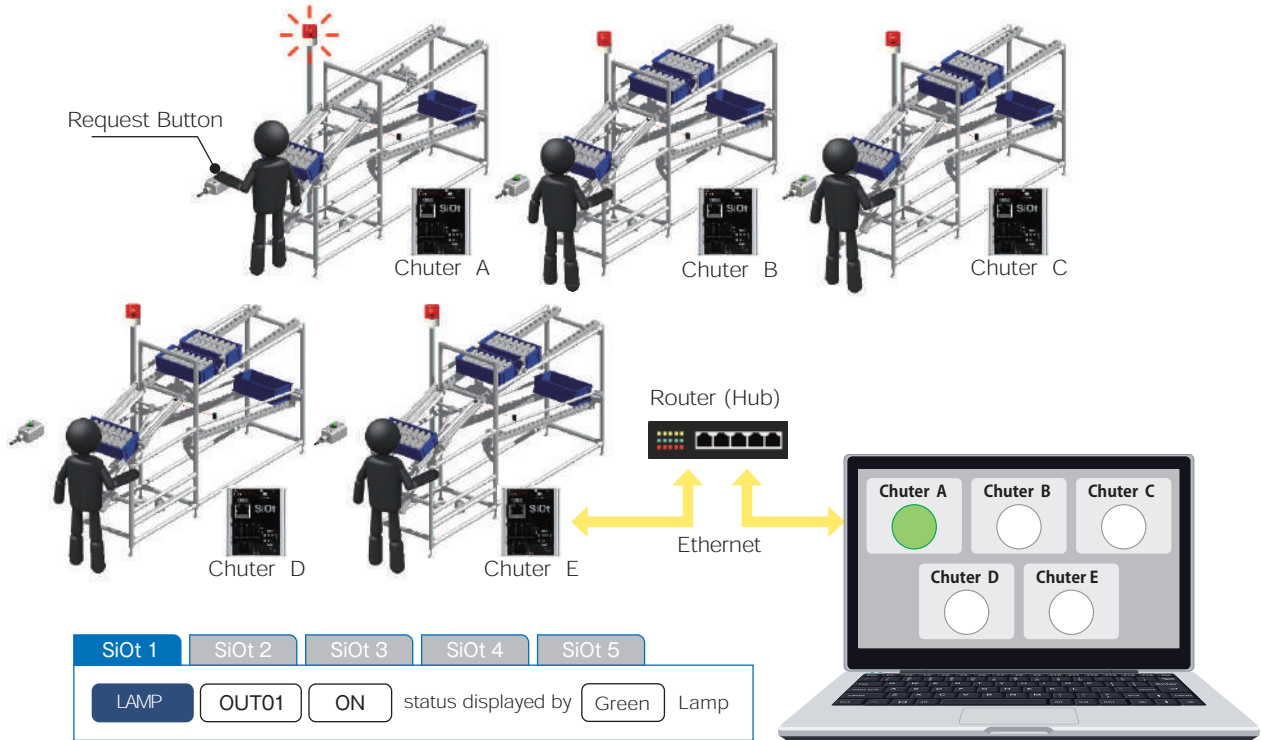


25

Display the status by lights which chuter does it need to be complemented on PC.

You need

- SiOt
- LAN Cable
- PC (IoT Programmer)
- Switch
- Router *Not required when connecting SiOt directly to a PC.
- Lamp

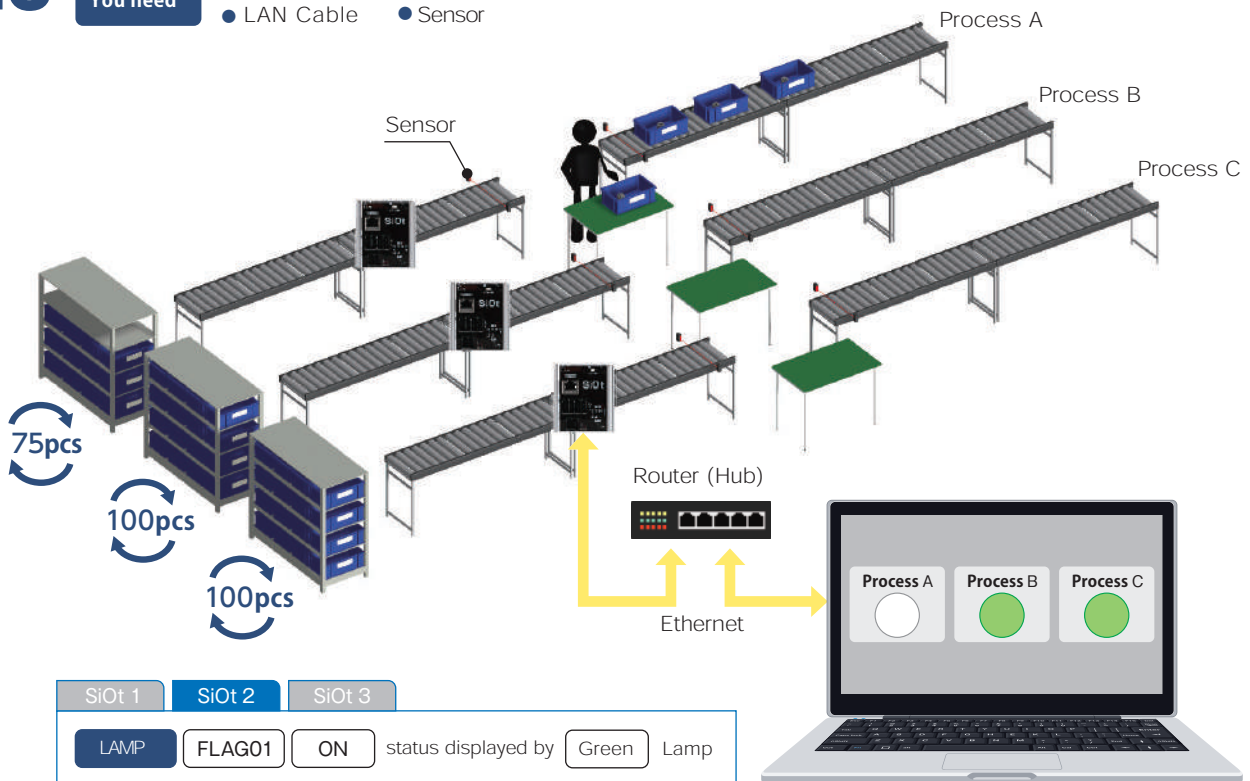


26

Display the status whether stations reach to target quantity of process completed.

You need

- SiOt
- LAN Cable
- PC (IoT Programmer)
- Sensor
- Router *Not required when connecting SiOt directly to a PC.



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

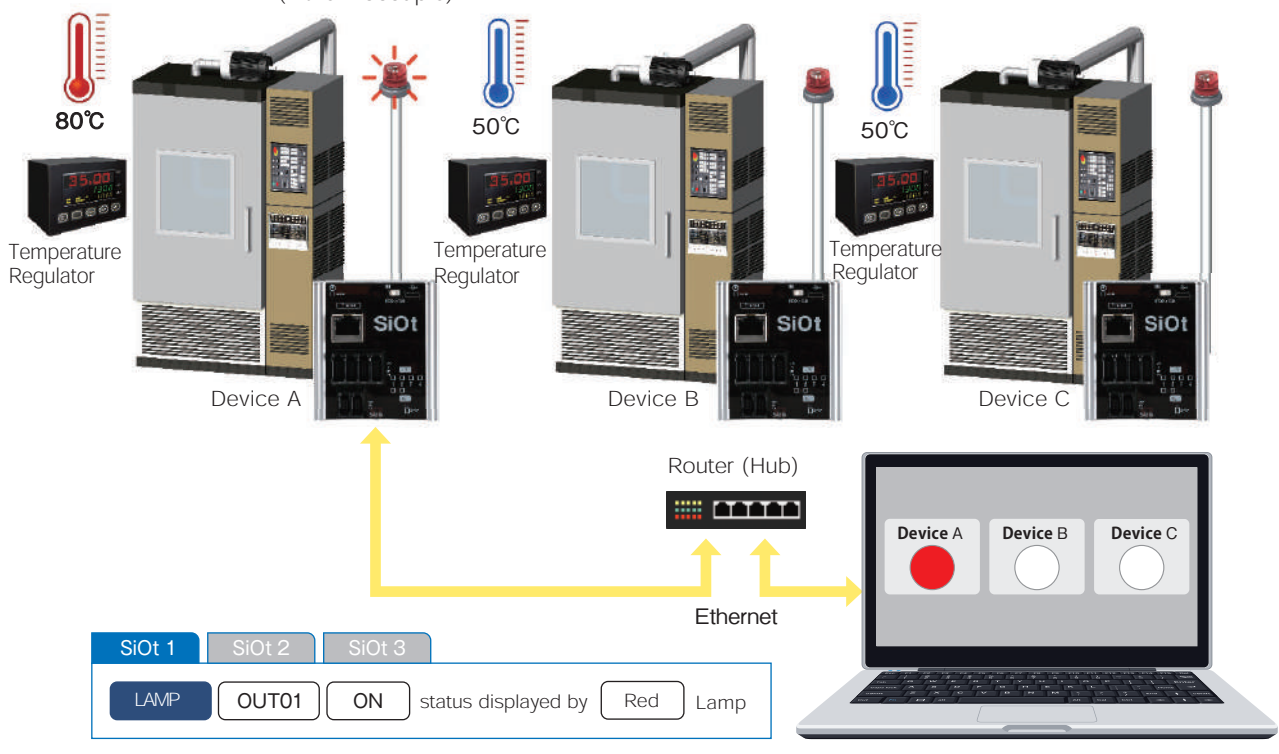
Products

Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

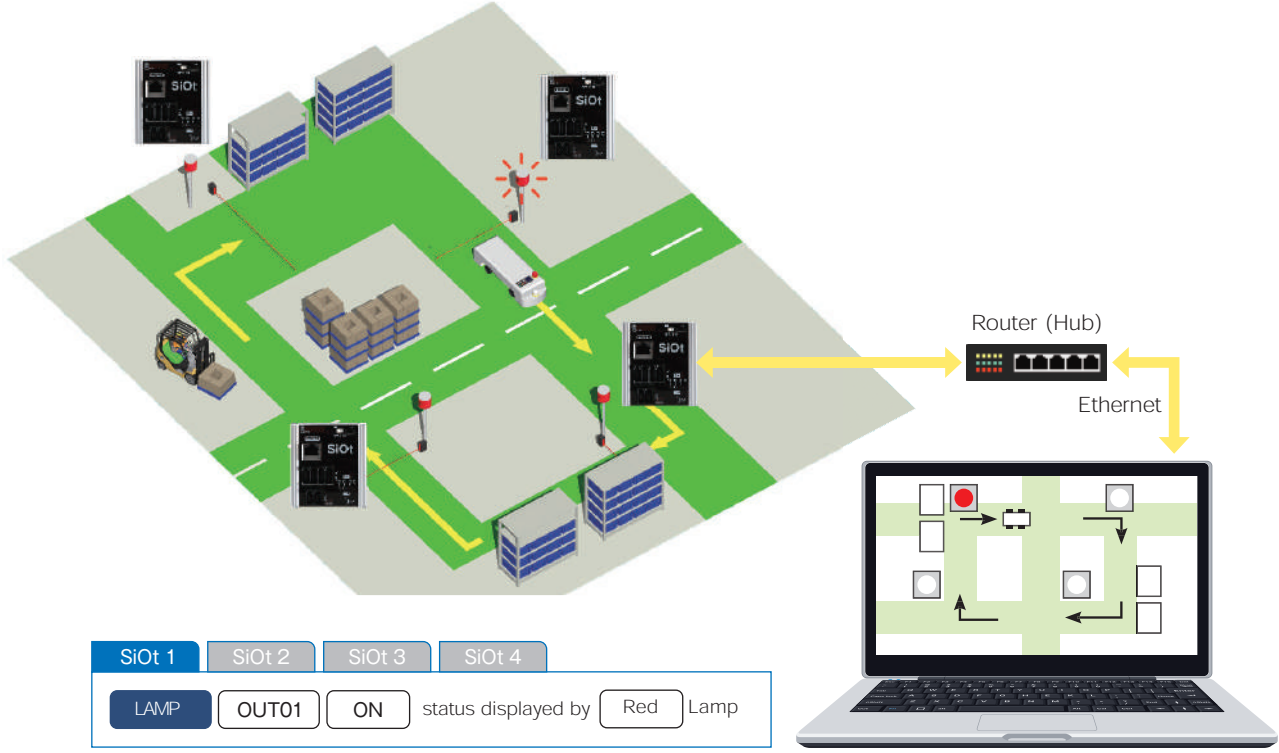
27 Display the status on PC when the temperature exceeds a certain temperature.

- You need**
- SiOt
 - PC (IoT Programmer)
 - Router *Not required when connecting SiOt directly to a PC.
 - LAN Cable
 - Temperature Regulator
 - Lamp (+thermocouple)



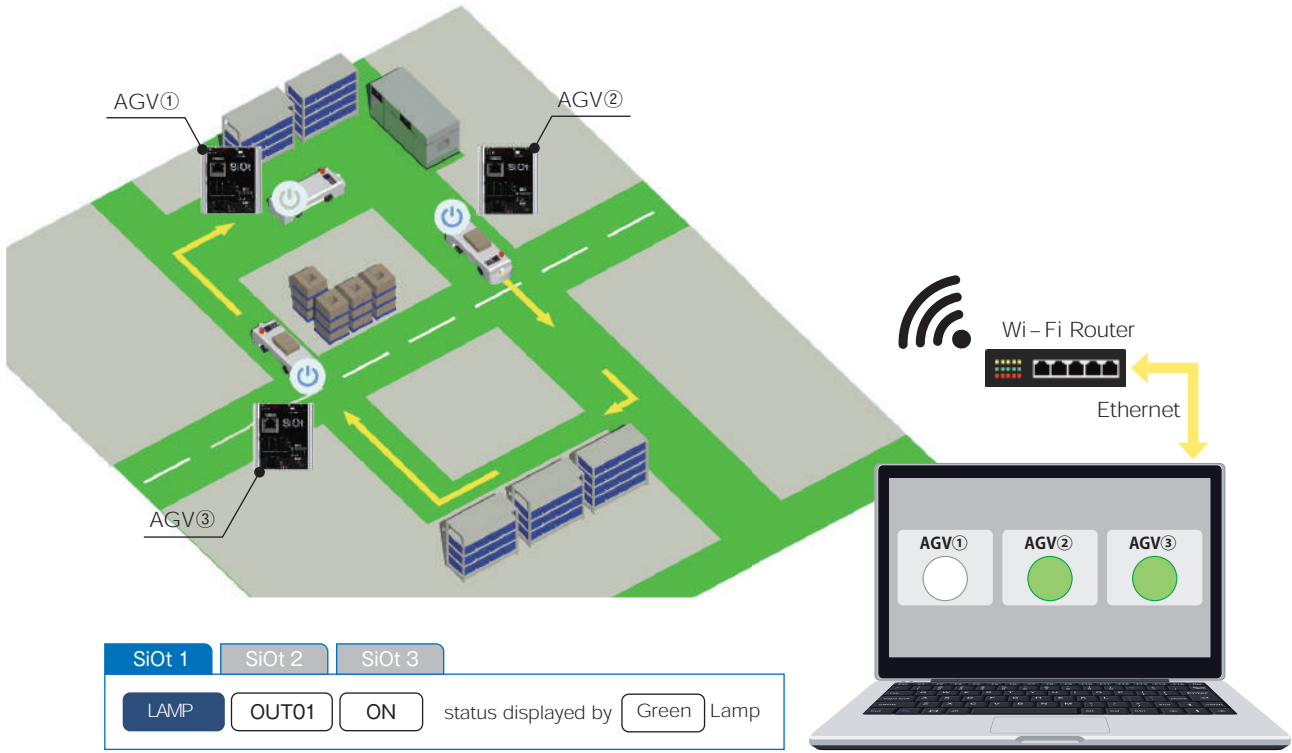
28 Display the status of trace of AGV on PC.

- You need**
- SiOt
 - PC (IoT Programmer)
 - Router *Not required when connecting SiOt directly to a PC.
 - LAN Cable
 - Sensor



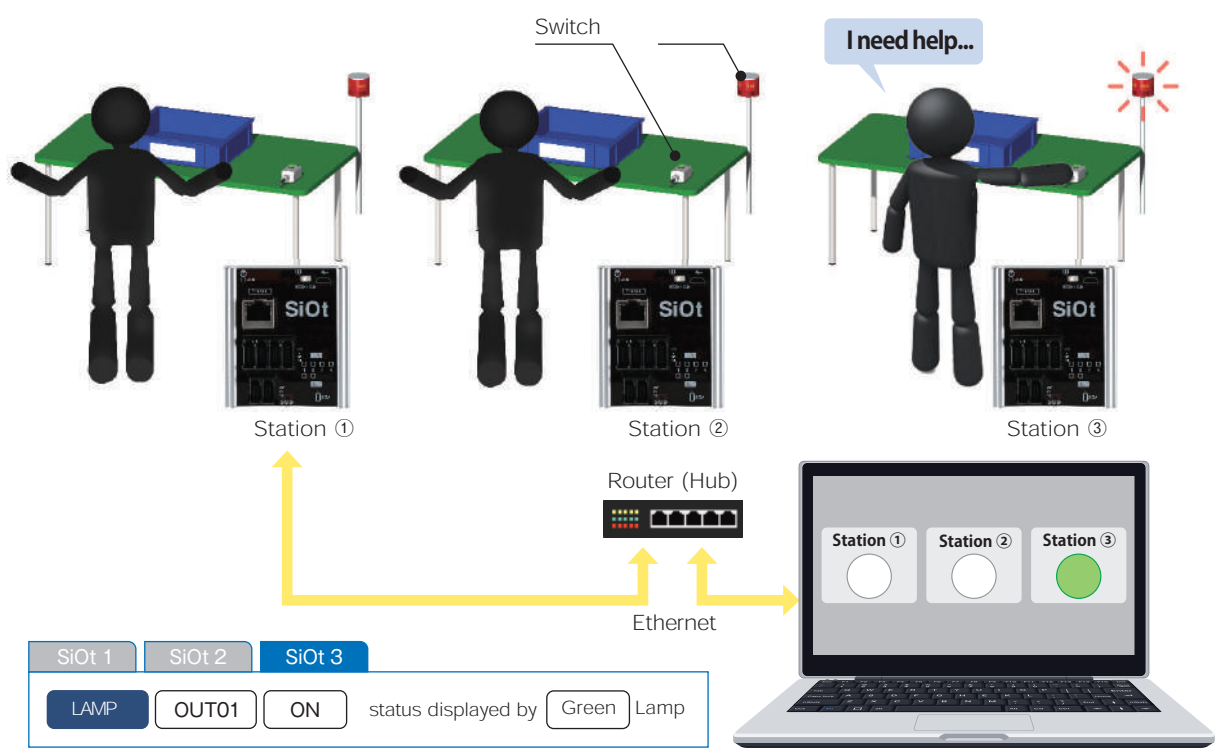
29 Display the status of AGV on PC.

- You need**
- SiOt
 - PC (IoT Programmer)
 - Wi-Fi Router
 - Wi-Fi Repeater
 - LAN Cable
 - IO cable for for AGV



30 Display the status which station's call button has been pressed on PC.

- You need**
- SiOt
 - PC (IoT Programmer)
 - Router *Not required when connecting SiOt directly to a PC.
 - LAN Cable
 - Switch
 - Lamp



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

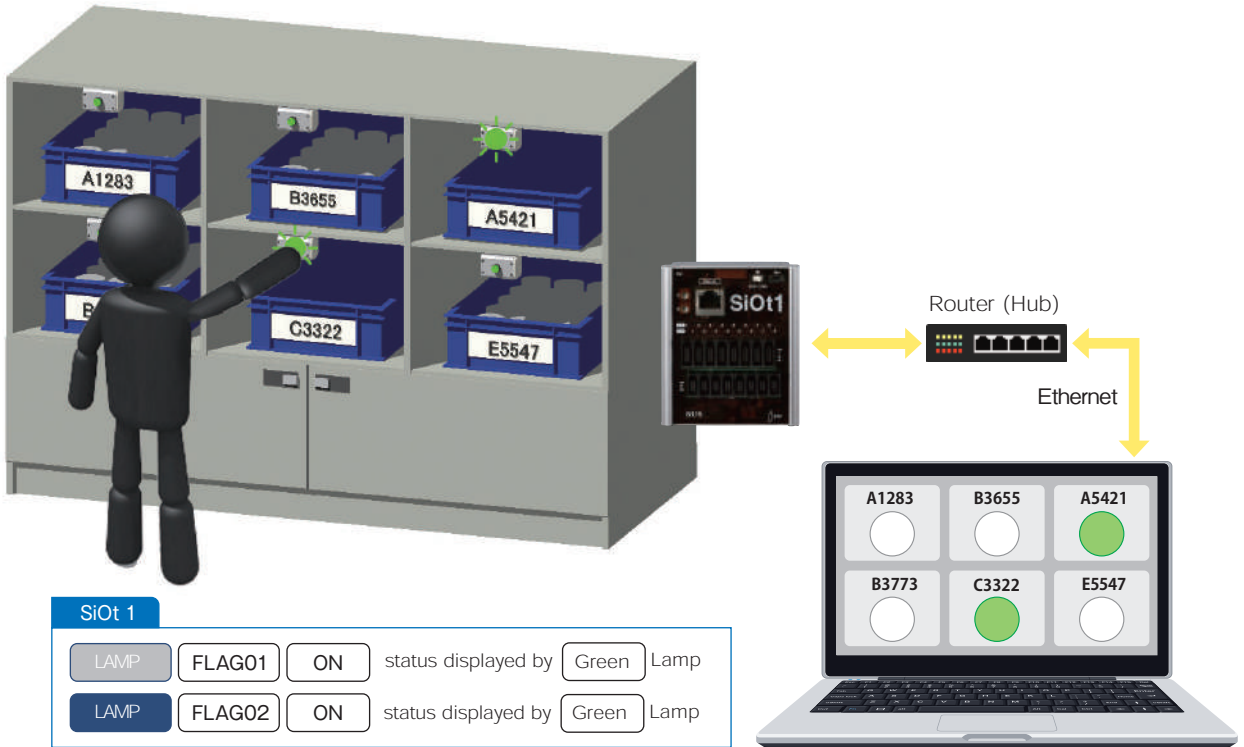
Products

Instruction

31 Display the status of items which need to be supplied on PC.

You need

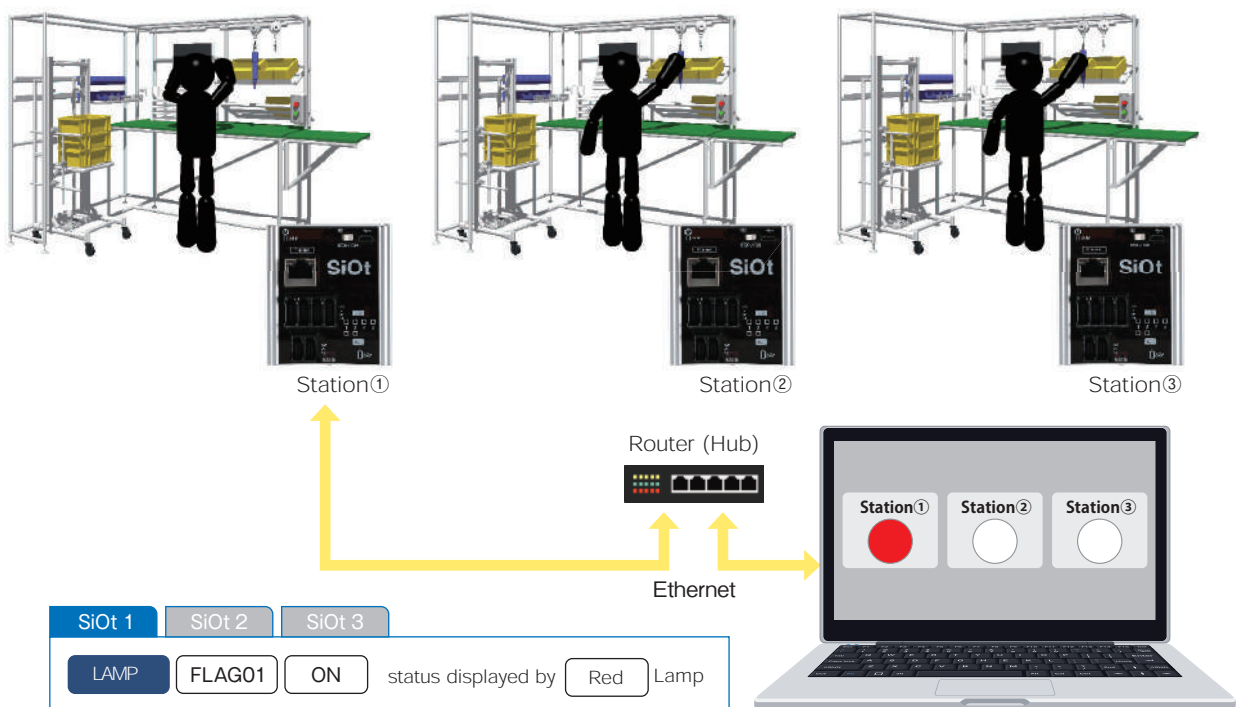
- SiOt1
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Switch



32 Display the status of station which has been late in operation on PC.

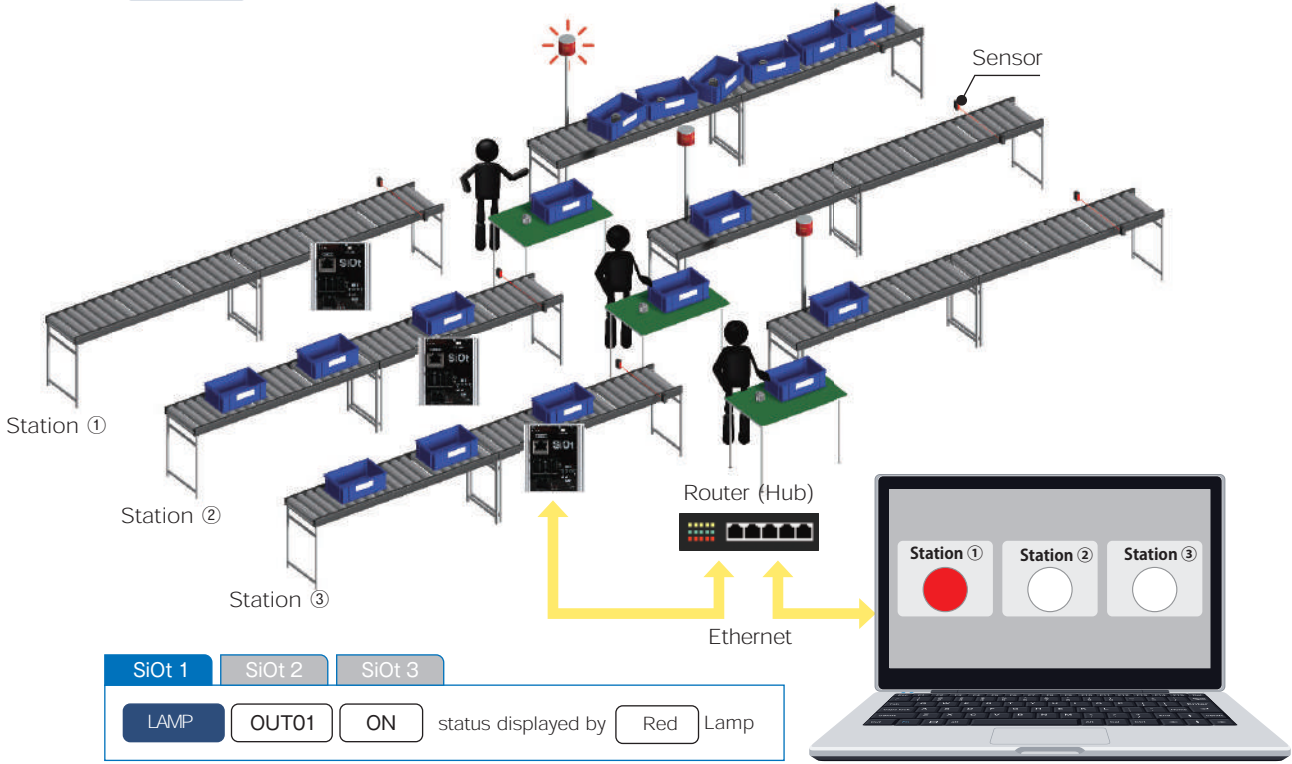
You need

- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Switch



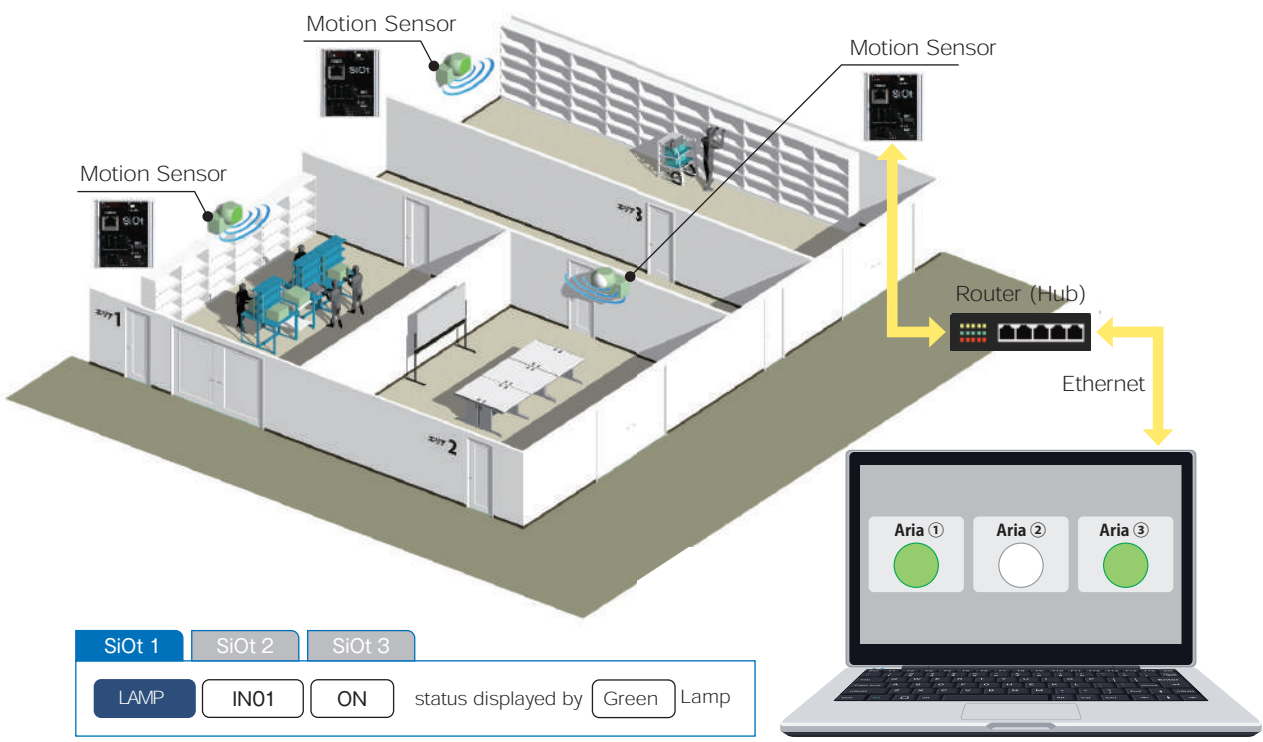
33 Display the status of station which has been stuck with workpieces.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router (Hub) *Not required when connecting SiOt directly to a PC.
 - Lamp



34 Display the status of area whether there are operators.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router (Hub) Not required when connecting SiOt directly to a PC.



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

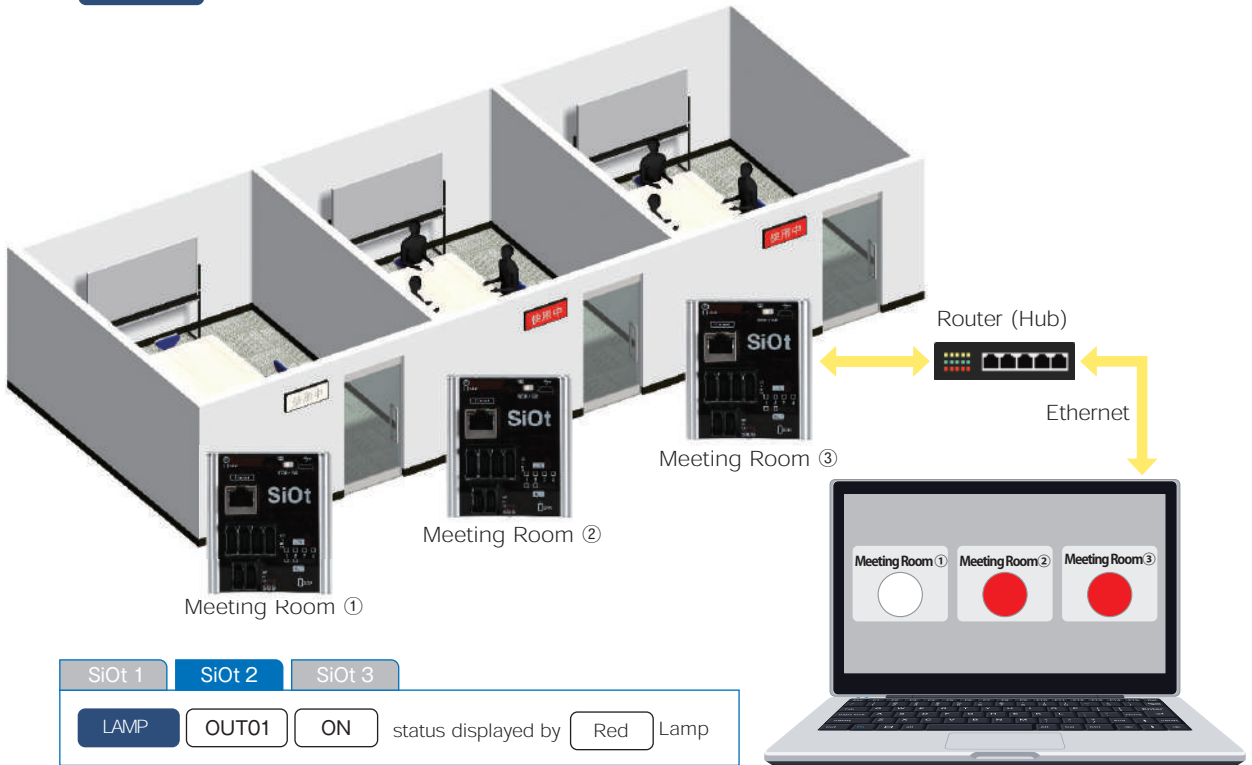
Products

Instruction

35 Display the status of meeting room whether they are in use / vacant.

You need

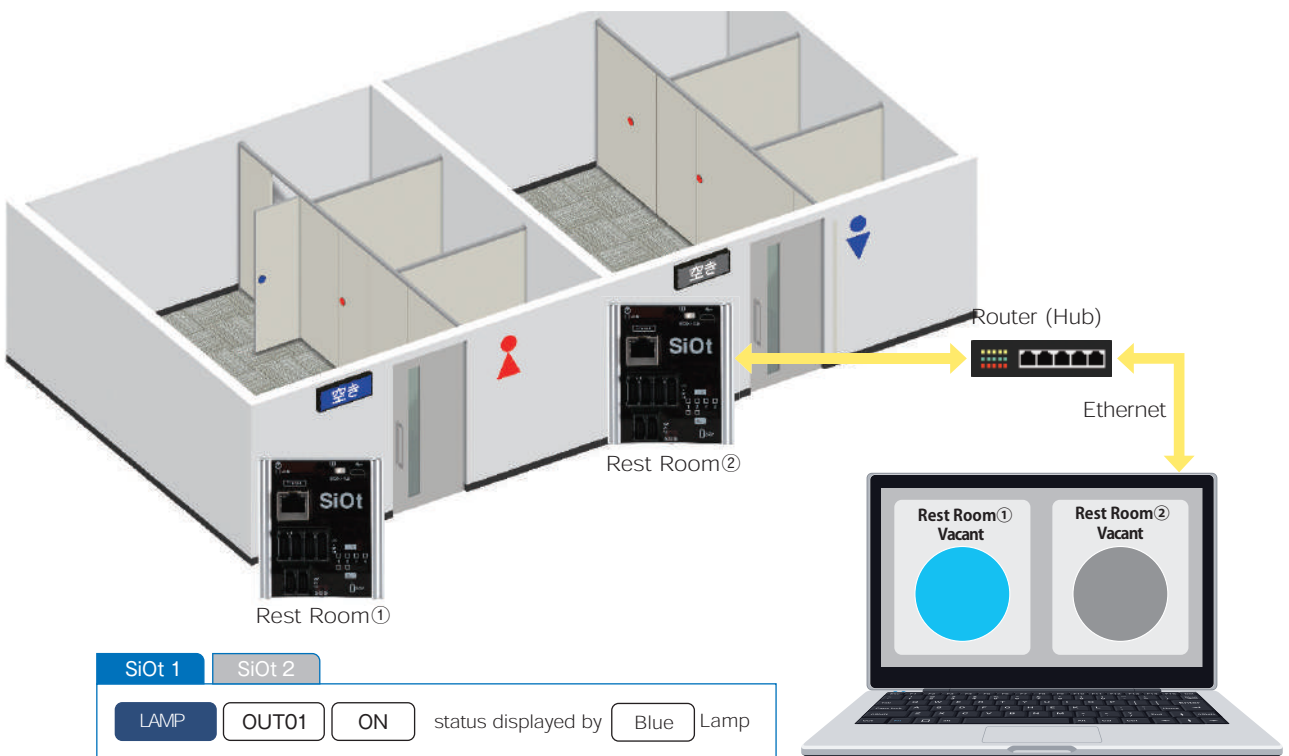
- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor



36 Display the status of restroom whether they are occupied / vacant.

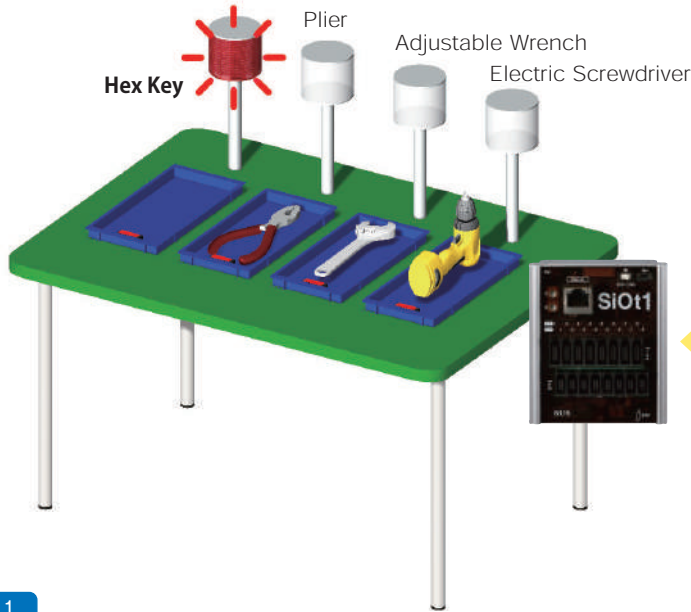
You need

- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor



37 Display the status of tools which is in use on PC.

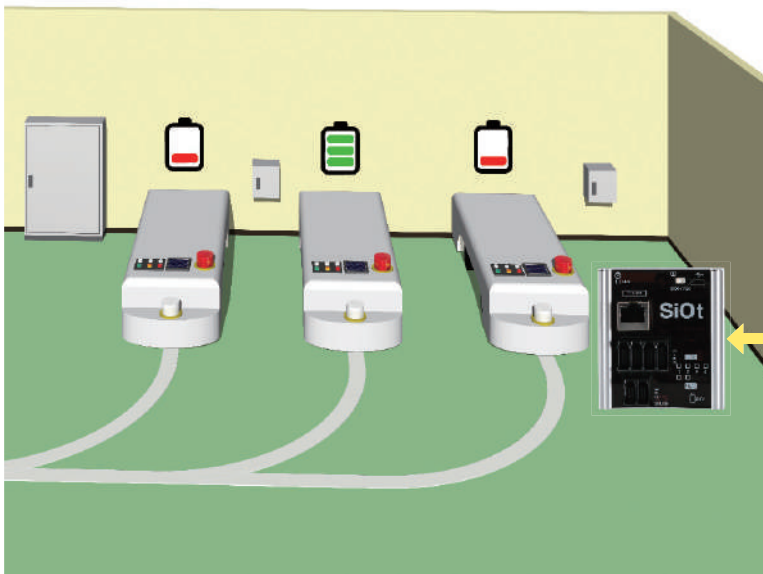
- You need**
- SiOt1
 - LAN Cable
 - PC(IoTProgrammer)
 - Sensor
 - Router
 - Lamp
- *Not required when connecting SiOt directly to a PC.



SiOt 1					
LAMP	FLAG01	ON	status displayed by	Red	Lamp
LAMP	FLAG02	ON	status displayed by	Red	Lamp

38 Display the charging status of AGV on PC.

- You need**
- SiOt
 - LAN Cable
 - PC(IoTProgrammer)
 - IO cable for AGV
 - Router
- *Not required when connecting SiOt directly to a PC.



SiOt 1					
LAMP	IN01	ON	status displayed by	Green	Lamp
LAMP	IN02	ON	status displayed by	Green	Lamp

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

39 Display the equipment status of aging or test on PC.

You need

- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Cable for equipment connection
- Router *Not requeired when connecting SiOt directly to a PC.

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

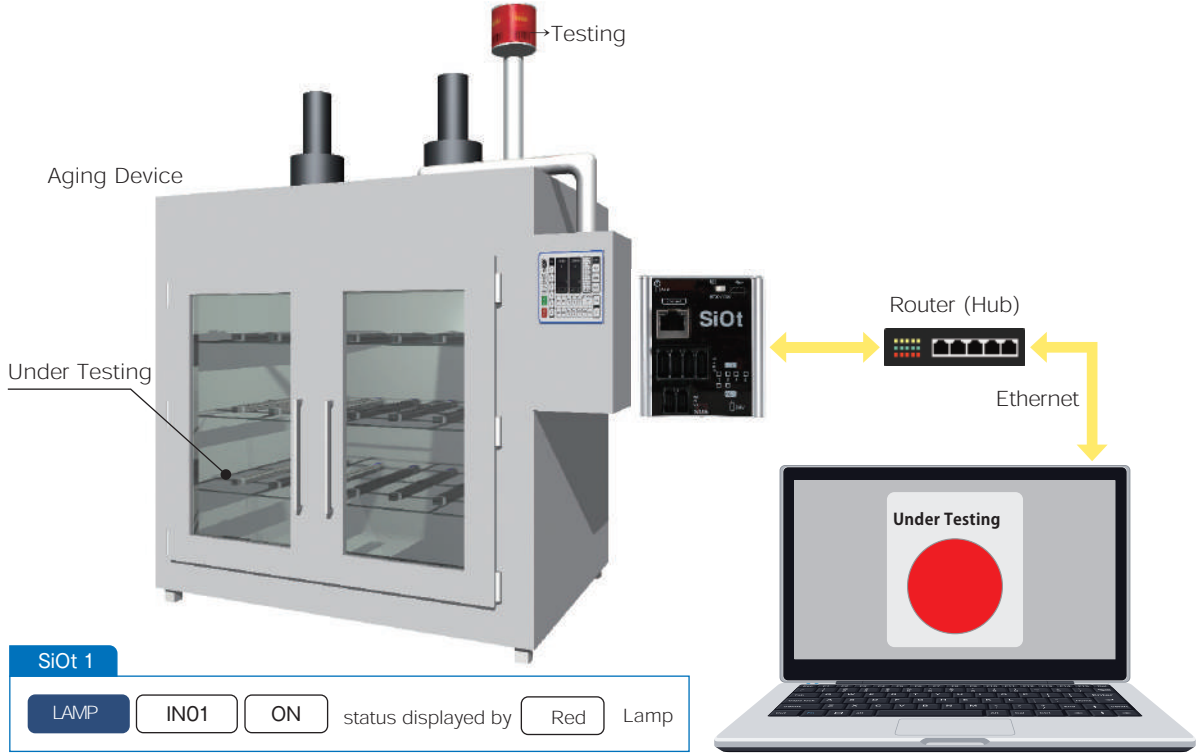
Time Count

Remote Control

Original System

Products

Instruction



40 Saving logfile of the time when workpieces have passed.



P.38

41 Saving logfile of the time when the equipment started and finished.



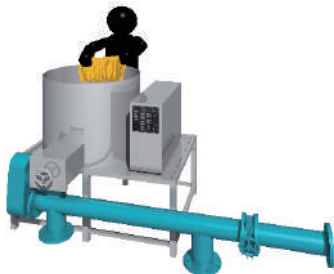
P.38

42 Saving logfile of the time when errors on the equipment have occurred.



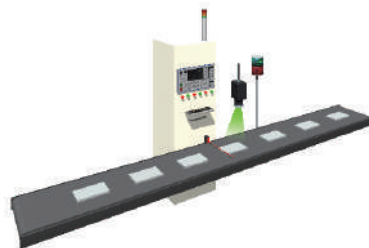
P.39

43 Saving logfile of the time when operators supply materials.



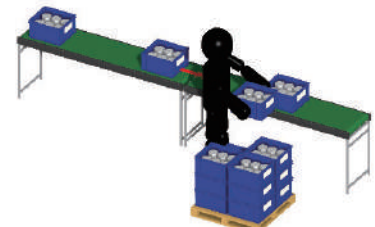
P.39

44 Saving logfile of results from the inspection.



P.40

45 Saving logfile of the date and time when workpiece transfers hit a set number.



P.40

46 Saving logfile of the date and time when assembled products hit a set number.



P.41

47 Saving logfile of the date and time when the device reaches above the standard temperature.



P.41

48 Saving logfile of the date and time the door was opened and closed.



P.42

49 Saving logfile of the assembly date and time for each serial number.



P.42

50 Saving logfile of tools or measuring equipment taken out.



P.43

51 Saving logfile of errors during aging.



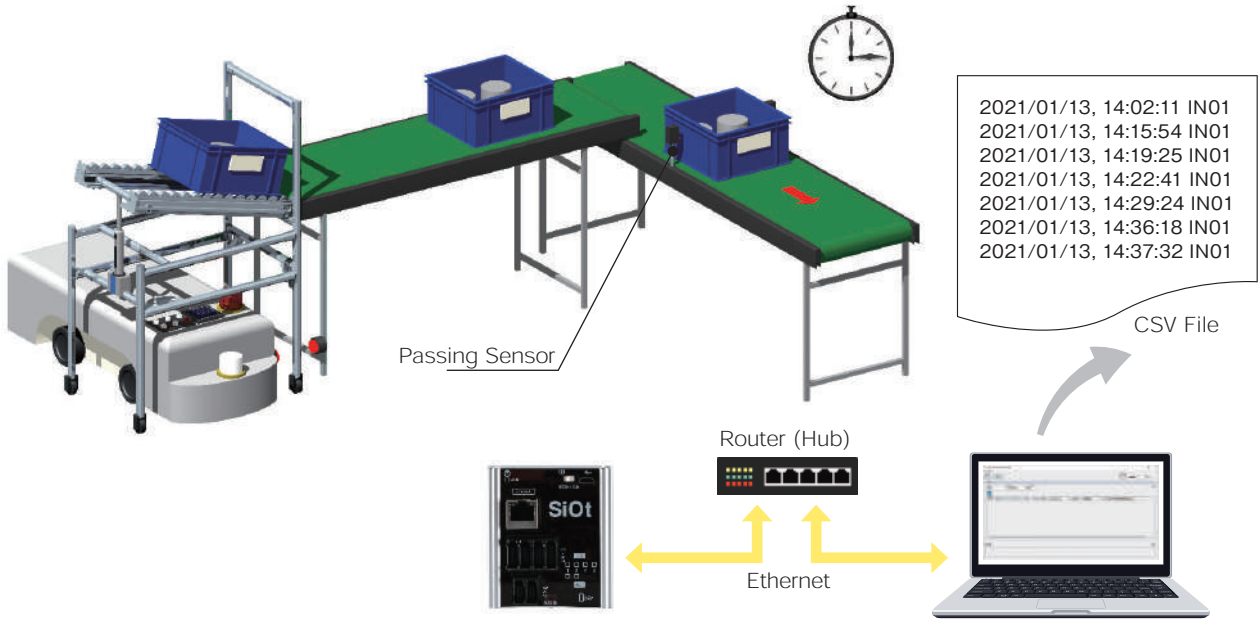
P.43

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving**
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- 独自システム事例
- Products
- Instruction

40 Saving logfile of the time when workpieces have passed.

You need

- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Sensor
- Router ※Not required when connecting SiOt directly to a PC.



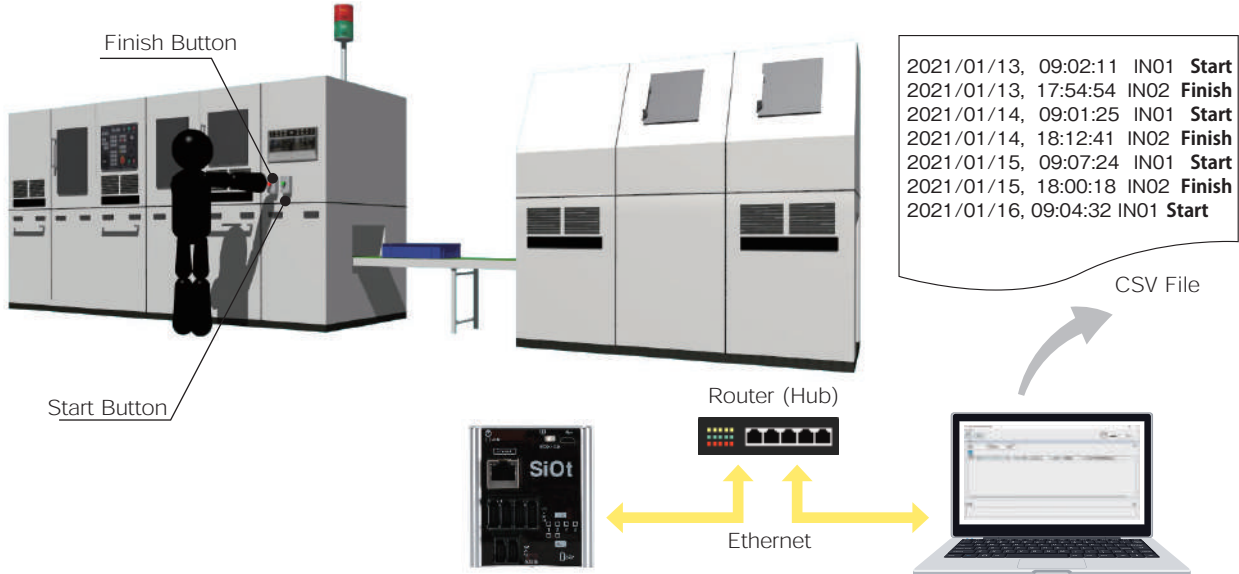
SiOt 1

Log IN01 ON log output to C:\log.csv

41 Saving logfile of the time when the equipment started and finished.

You need

- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Router ※Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1

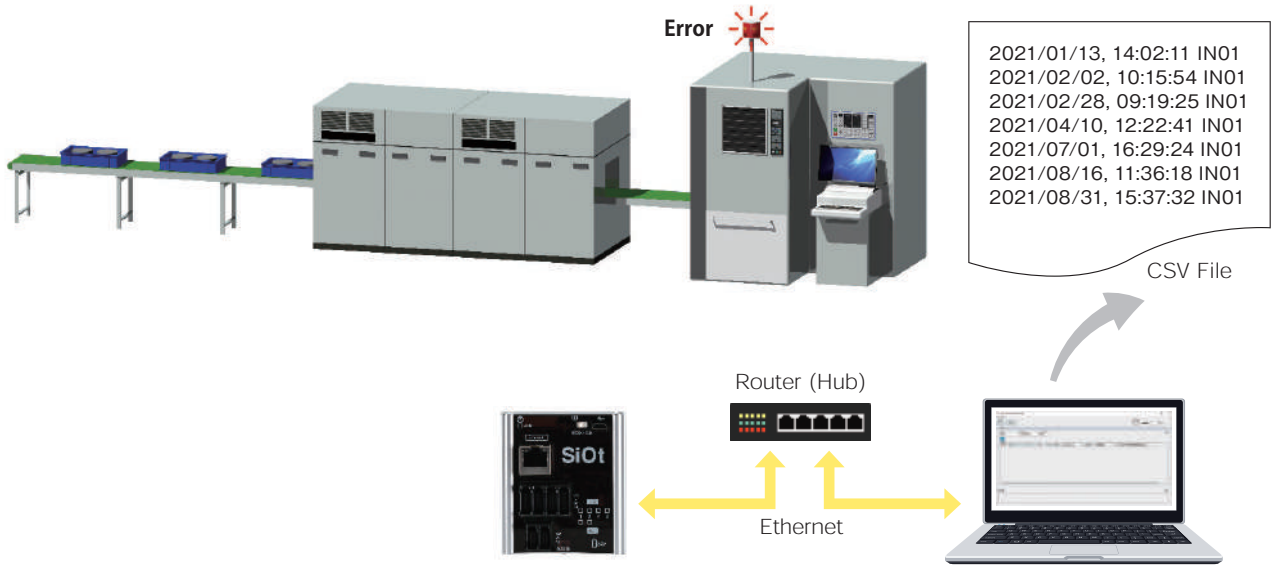
Log IN01 ON log output to C:\log.csv

Log IN02 ON log output to C:\log.csv

42 Saving logfile of the time when errors on the equipment have occurred.

You need

- SiOt
- LAN Cable
- PC (IoT Programmer)
- Router
- *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



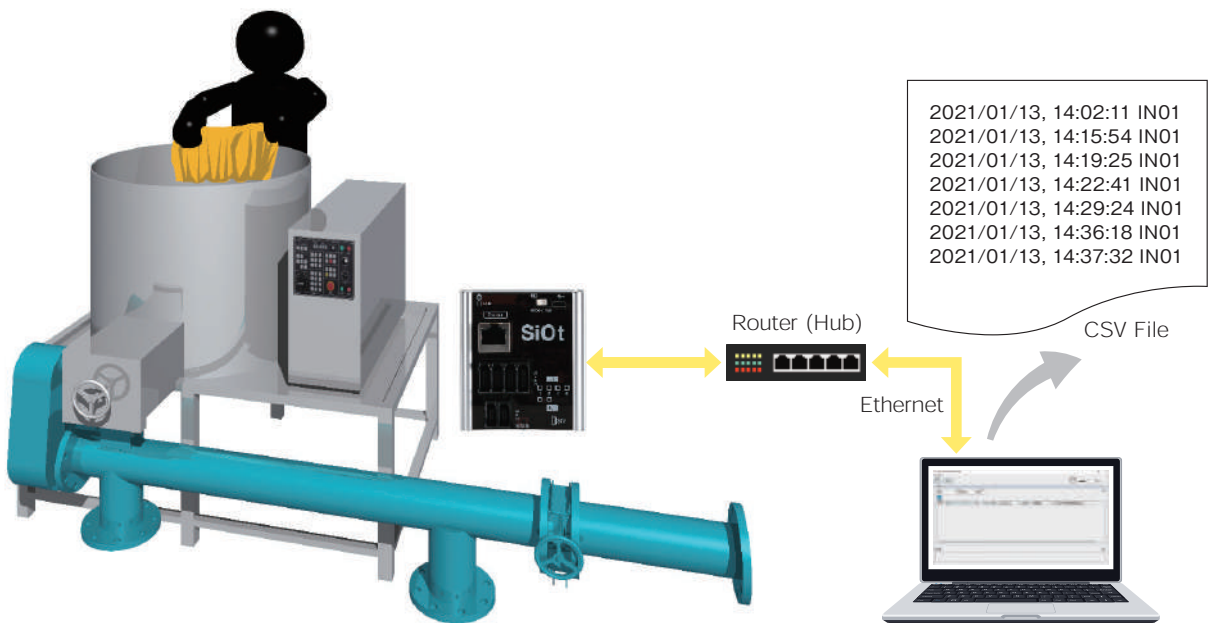
SiOt 1

Log IN01 ON log output to C:\log.csv

43 Saving logfile of the time when operators supply materials.

You need

- SiOt
- LAN Cable
- PC (IoT Programmer)
- Router
- *Not required when connecting SiOt directly to a PC.
- Sensor



SiOt 1

Log IN01 ON log output to C:\log.csv

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

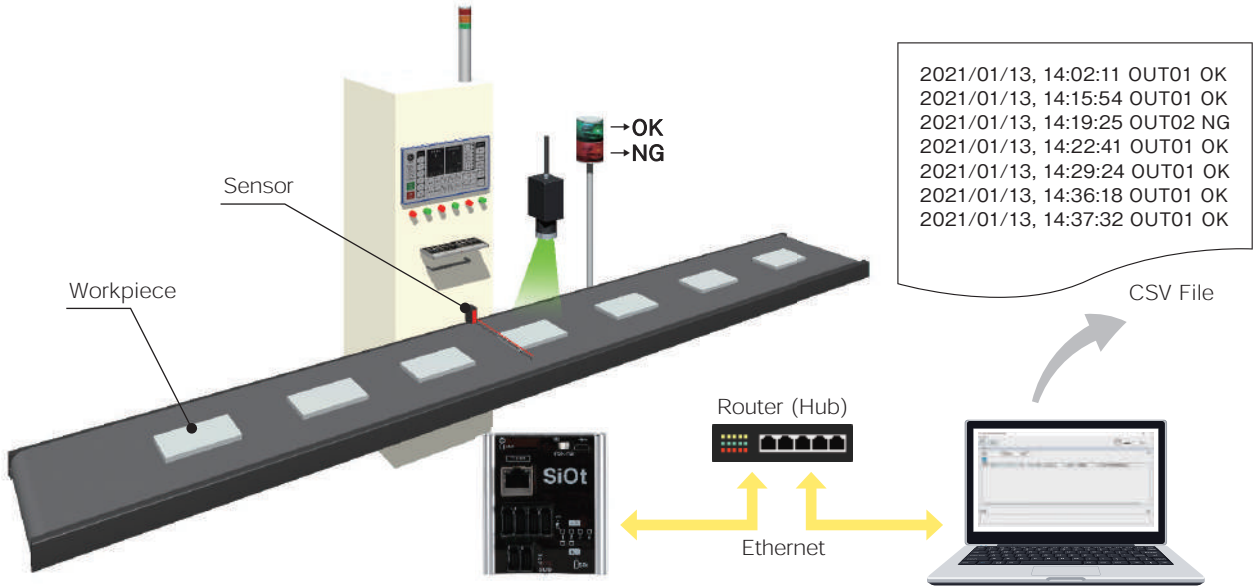
Instruction

- What is SiOt
- Use Case**
- Email Sending
- Visualization
- Logfile Saving**
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

44 Saving logfile of results from the inspection.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Camera Sensor
 - Sensor
 - Router
 - Lamp
- ※ Not required when connecting SiOt directly to a PC.



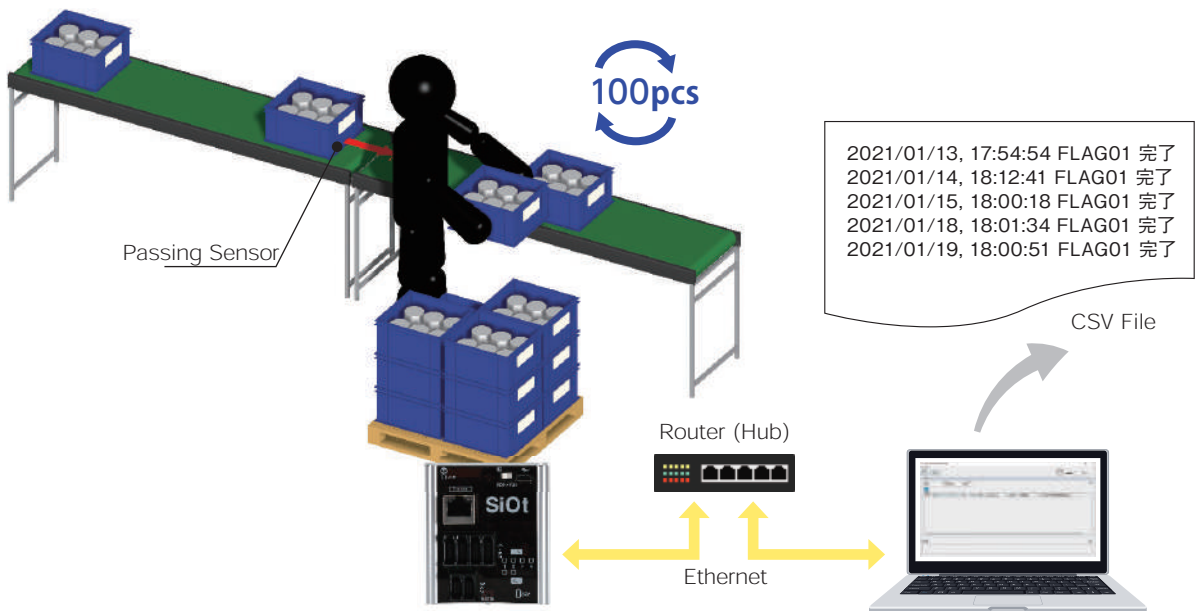
SiOt 1

Log	OUT01	ON	log output to	C:\¥log.csv
Log	OUT02	ON	log output to	C:\¥log.csv

45 Saving logfile of the date and time when workpiece transfers hit a set number.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router
- ※ Not required when connecting SiOt directly to a PC.



SiOt 1

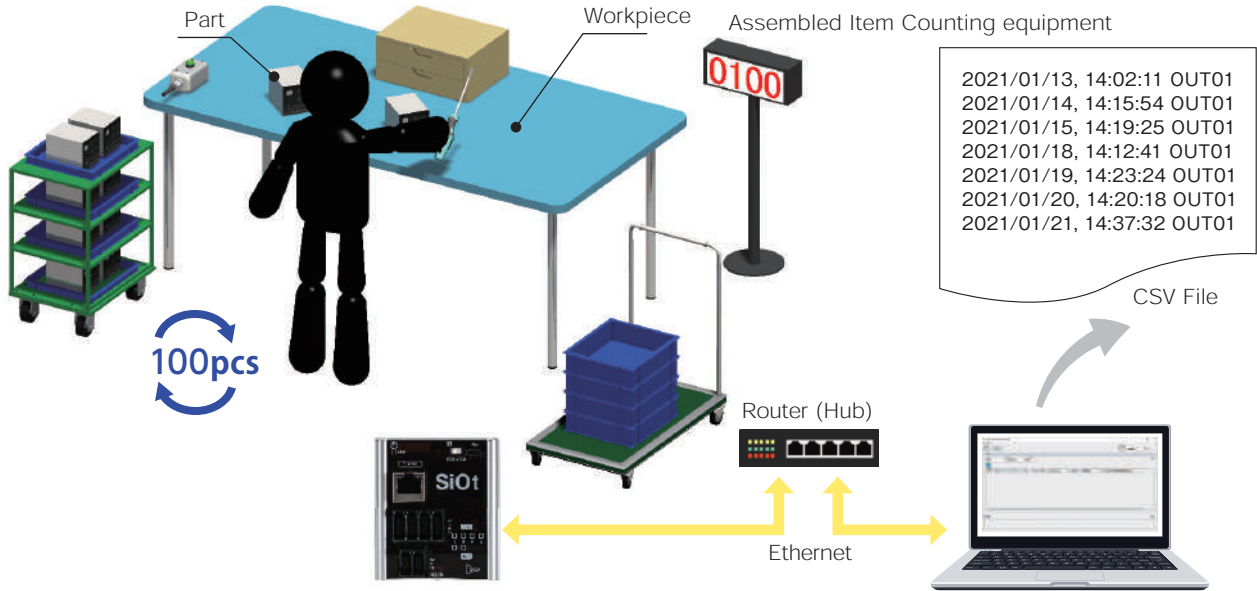
Log	FLAG01	ON	log output to	C:\¥log.csv
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46

Saving logfile of the date and time when assembled products hit a set number.

You need

- SiOt
- LAN Cable
- PC (lot Programmer)
- Router
- Switch
- *Not required when connecting SiOt directly to a PC.



SiOt 1

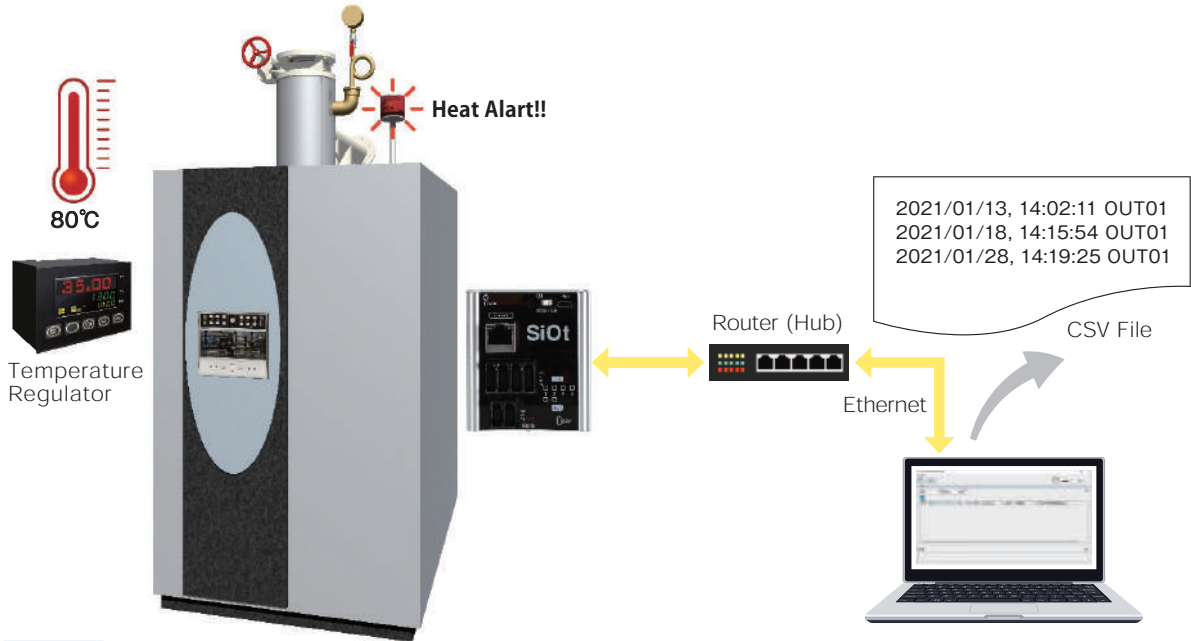
Log FLAG01 ON log output to C:\log.csv

47

Saving logfile of the date and time when the device reaches above the standard temperature.

You need

- SiOt
- LAN Cable
- PC (IoT Programmer)
- Router
- Temperature Regulator (+thermocouple)
- Lamp
- *Not required when connecting SiOt directly to a PC.



SiOt 1

Log OUT01 ON log output to C:\log.csv

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

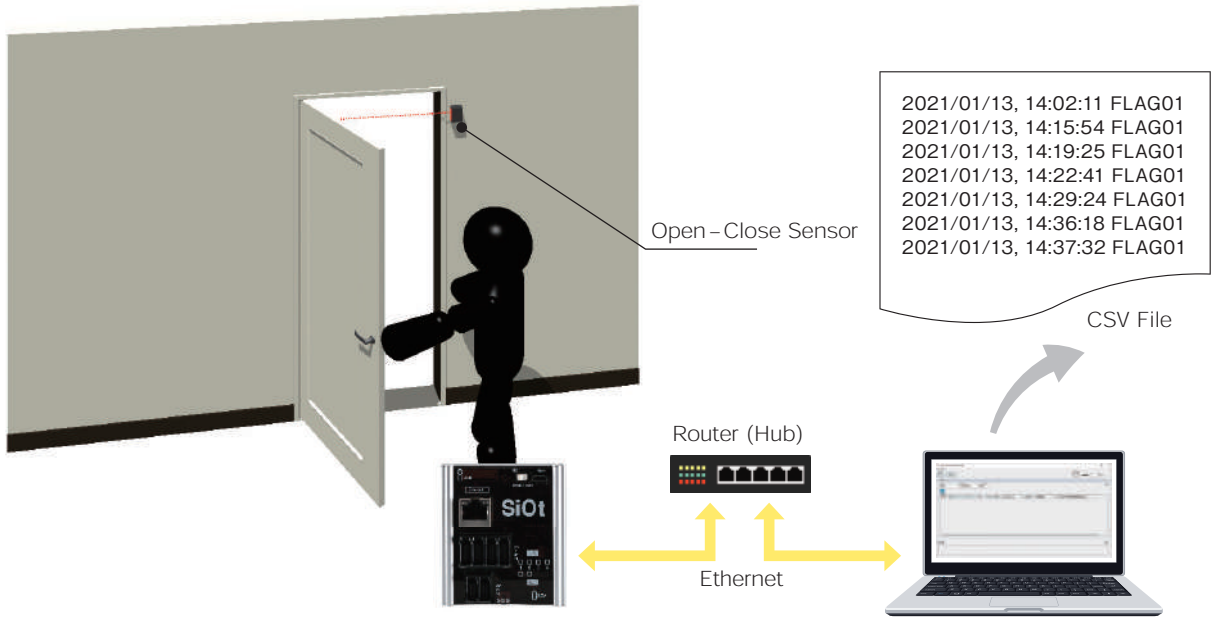
Instruction

- What is SiOt
- Use Case**
- Email Sending
- Visualization
- Logfile Saving**
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

48 Saving logfile of the date and time the door was opened and closed.

You need

- SiOt
- LAN Cable
- PC(IoTProgrammerProgrammer)
- Router
- Sensor
- *Not required when connecting SiOt directly to a PC.



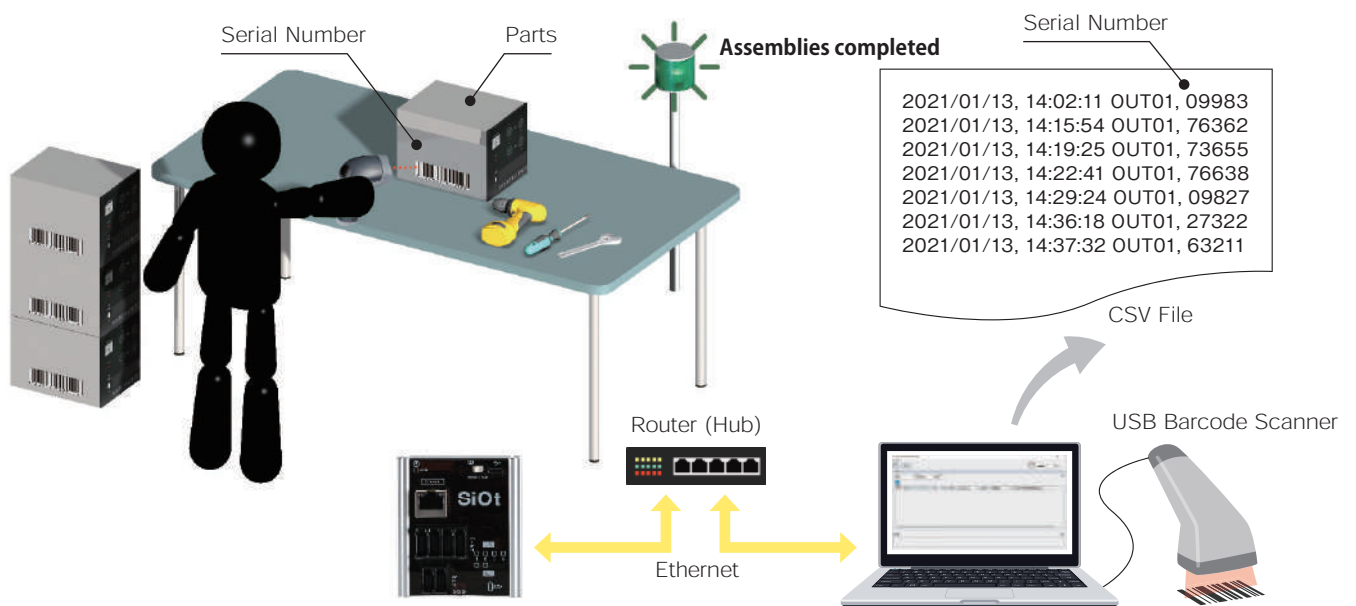
SiOt 1

Log FLAG01 ON log output to C:\log.csv

49 Saving logfile of the assembly date and time for each serial number.

You need

- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Router
- Lamp
- *Not required when connecting SiOt directly to a PC.

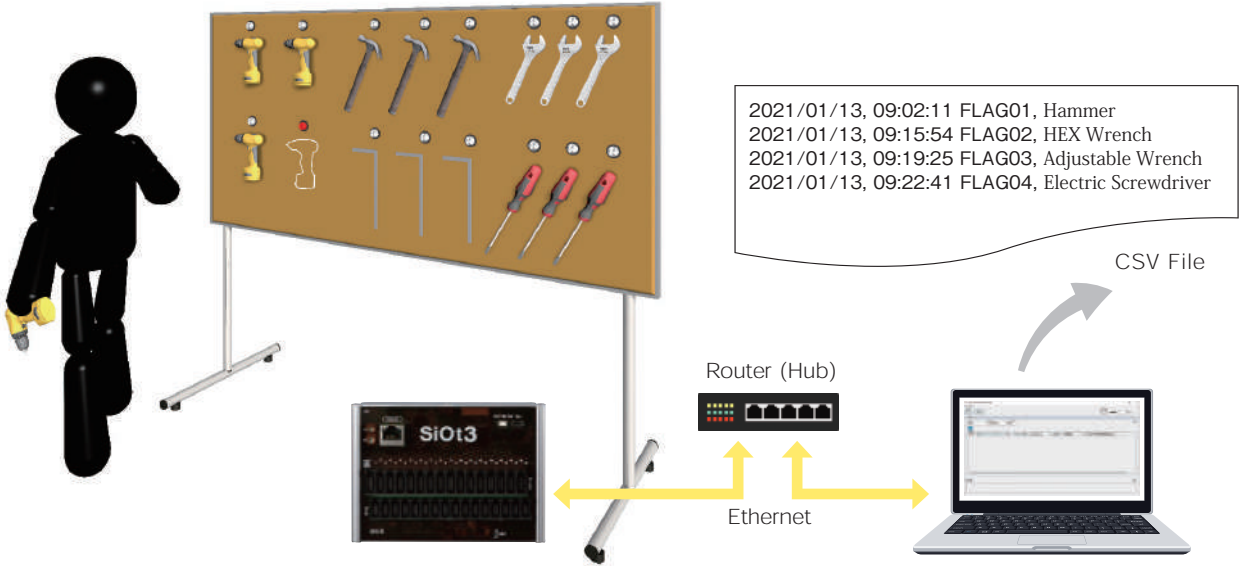


SiOt 1

Log OUT01 ON log ooutput to C:\log.csv

50 Saving logfile of tools or measuring equipment taken out.

- You need**
- SiOt3
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router
 - Lamp
- *Not required when connecting SiOt directly to a PC.

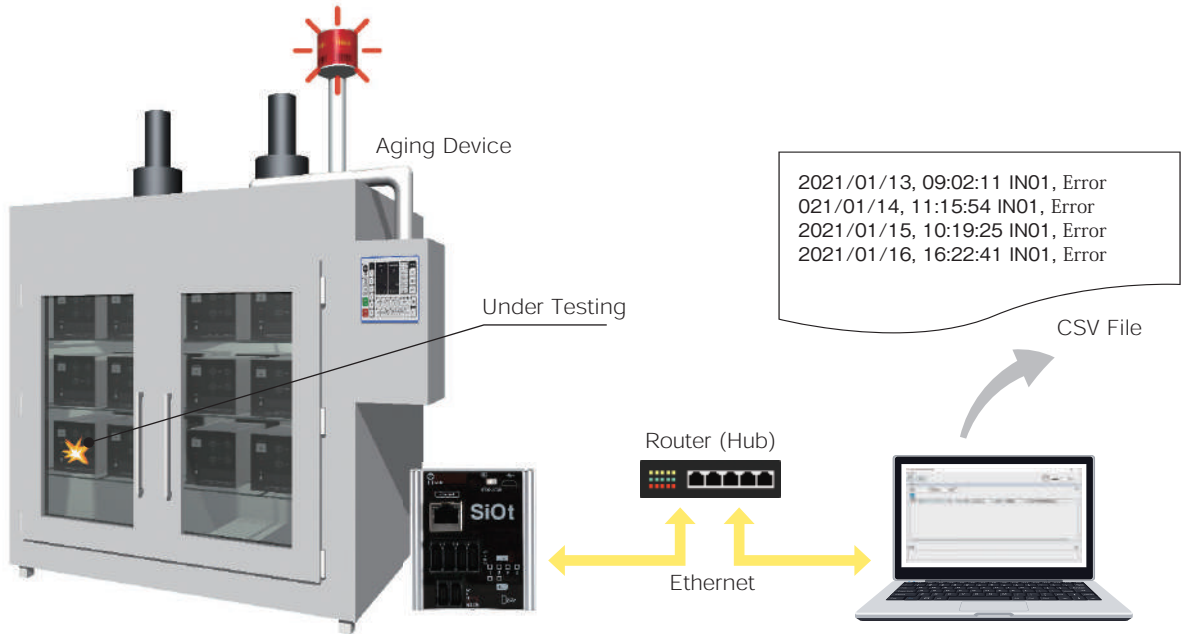


SiOt 1

Log	FLAG01	ON	log output to	C:\log.csv
Log	FLAG02	ON	log output to	C:\log.csv

51 Saving logfile of errors during aging.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for Device Connection
 - Router
- *Not required when connecting SiOt directly to a PC.



SiOt 1

Log	IN01	ON	log output to	C:\log.csv
-----	------	----	---------------	------------

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

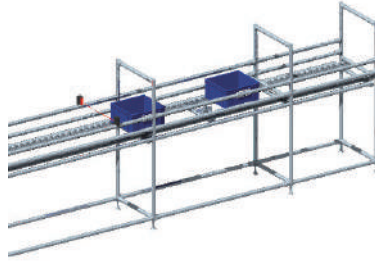
Instruction

52 Count display on PC showing how many round trips were made in aging tests.



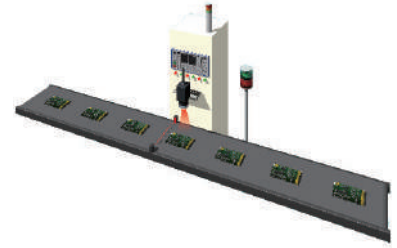
P.45

53 Count display on PC showing the number of workpieces passed.



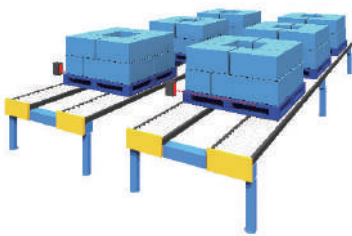
P.45

54 Count display the number of OK/NG from testing result.



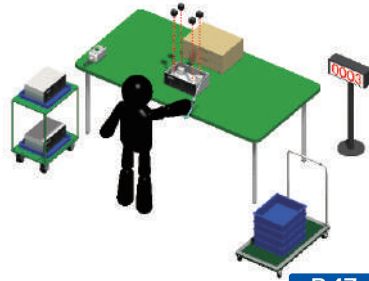
P.46

55 Count display on PC showing the number of carry in/out pallets.



P.46

56 Count display on PC showing the number of assembled parts.



P.47

57 Count display on PC showing the number of shipped cartons.



P.47

58 Count display on PC showing the number of waiting workpieces for supply.



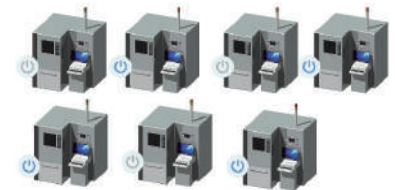
P.48

59 Count display on PC showing the number of unassembled parts.



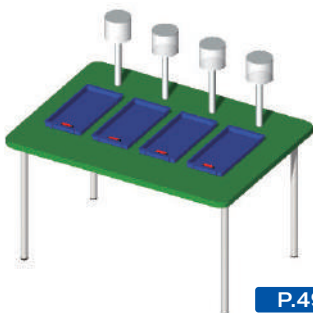
P.48

60 Count display on PC showing the number of running equipment.



P.49

61 Count display on PC showing the number of equipment in use.



P.49

62 Count display on PC showing the number of running AGV.



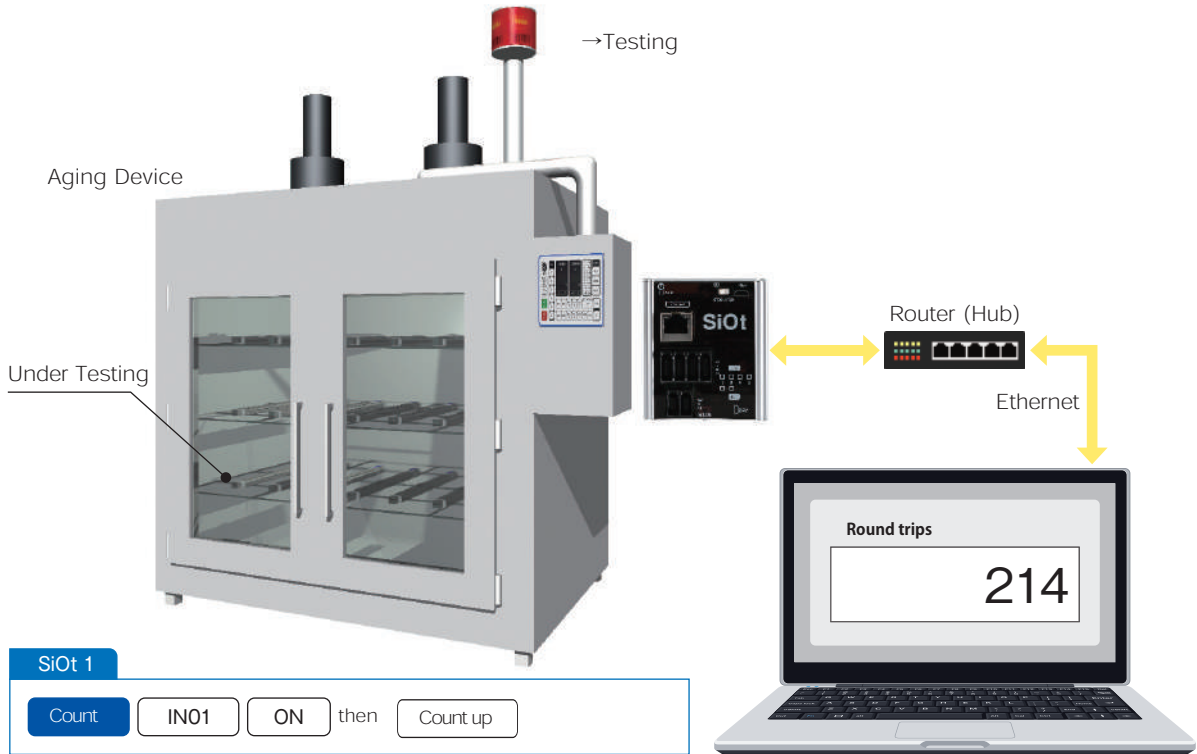
P.50

52

Count display on PC showing how many round trips were made in aging tests.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for Device Connection
 - Router
 - Lamp
- *Not required when connecting SiOt directly to a PC.

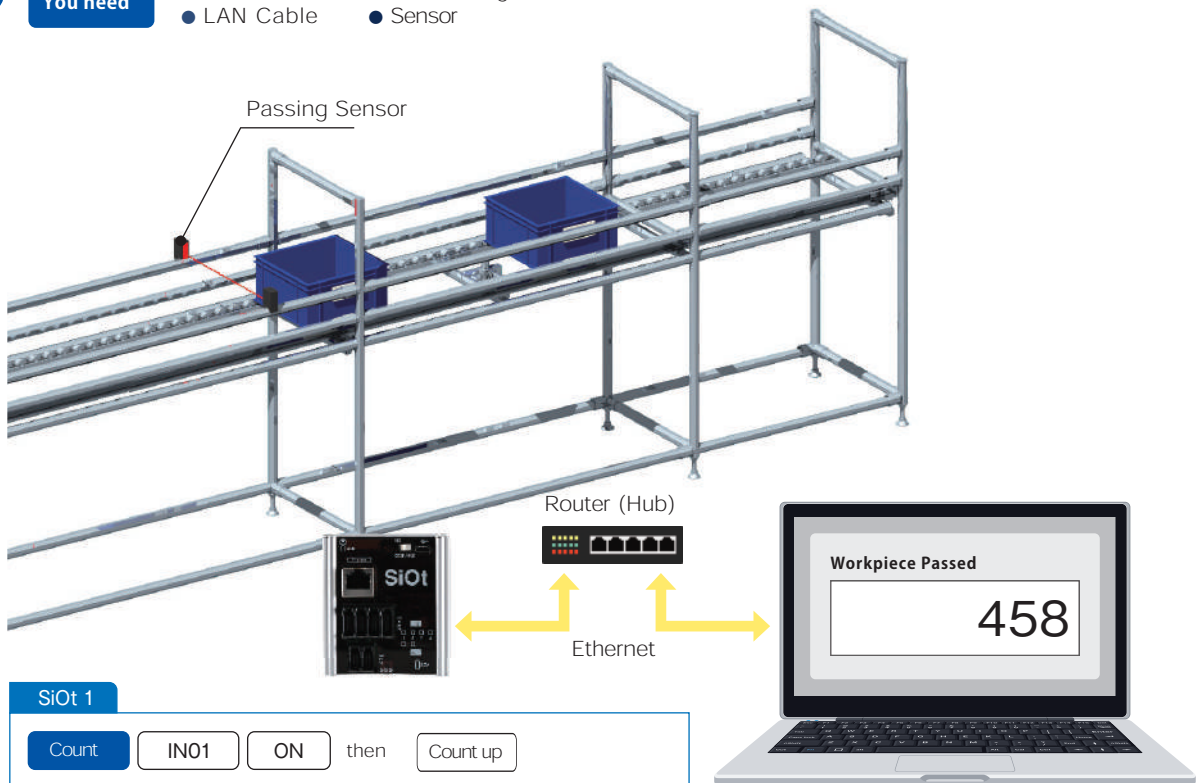


53

Count display on PC showing the number of workpieces passed.

You need

- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router
- *Not required when connecting SiOt directly to a PC.



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

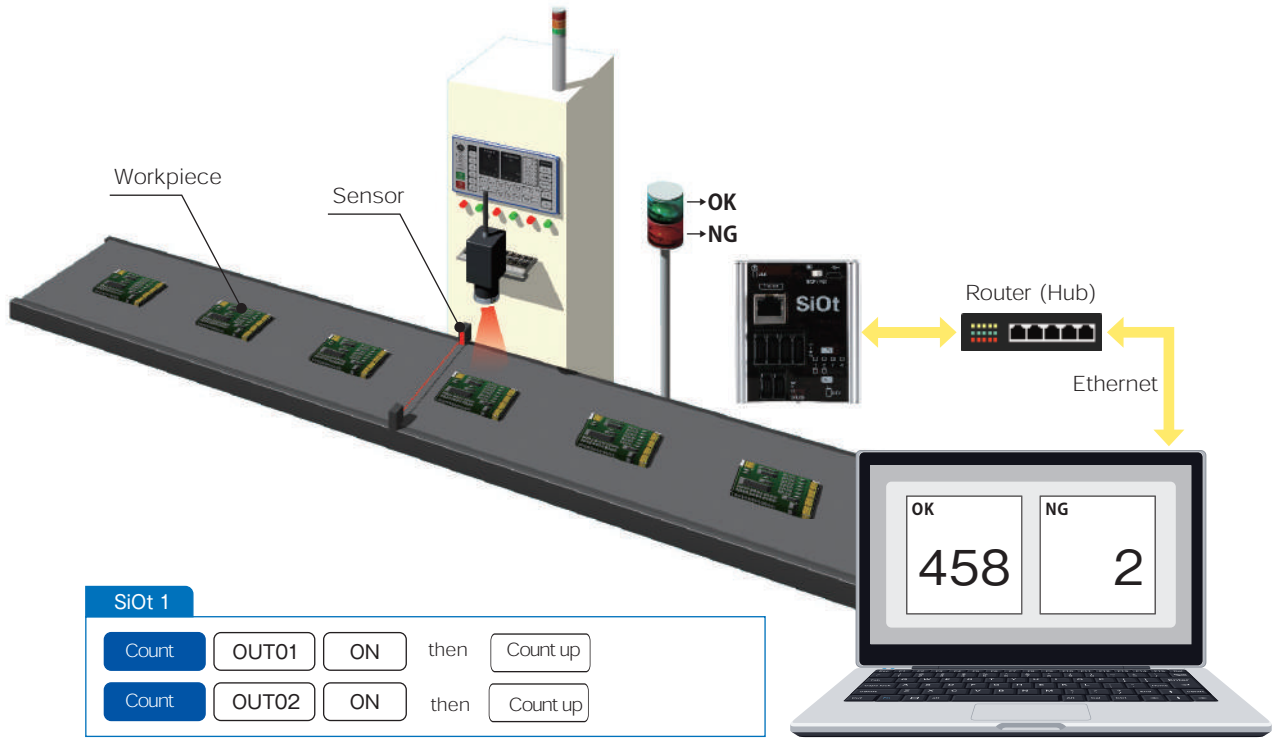
Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count**
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

54 Count display the number of OK/NG from testing result.

You need

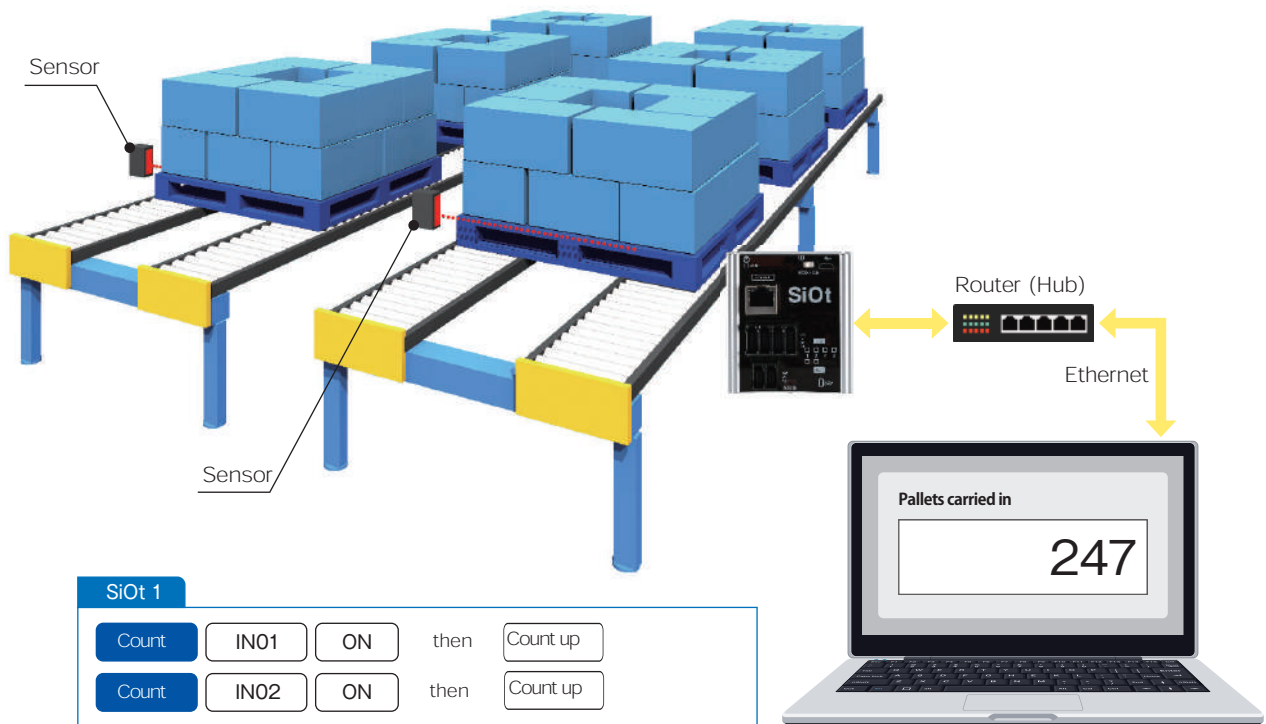
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Camera Sensor
 - Router
 - Sensor
 - Lamp
- *Not required when connecting SiOt directly to a PC.



55 Count display on PC showing the number of carry in/out pallets.

You need

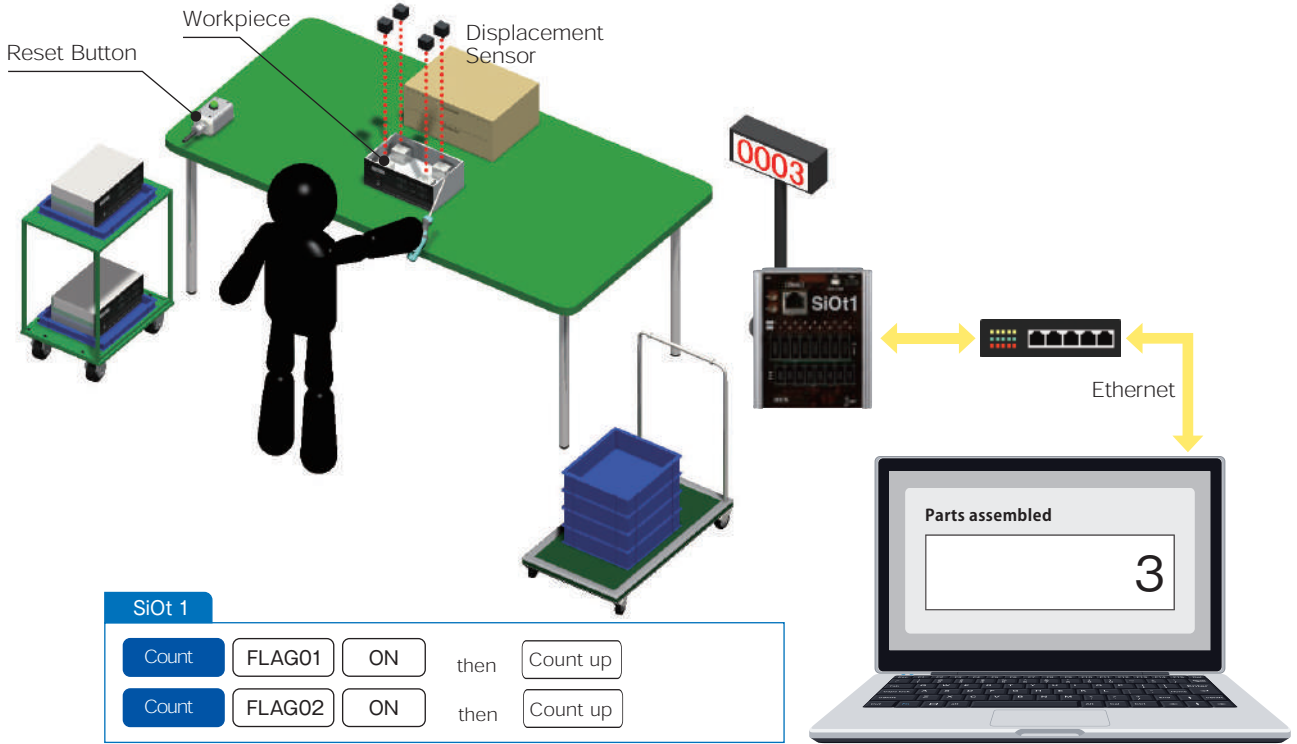
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router
- *Not required when connecting SiOt directly to a PC.



56 Count display on PC showing the number of assembled parts.

You need

- SiOt1
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Displacement Sensor
- Switch



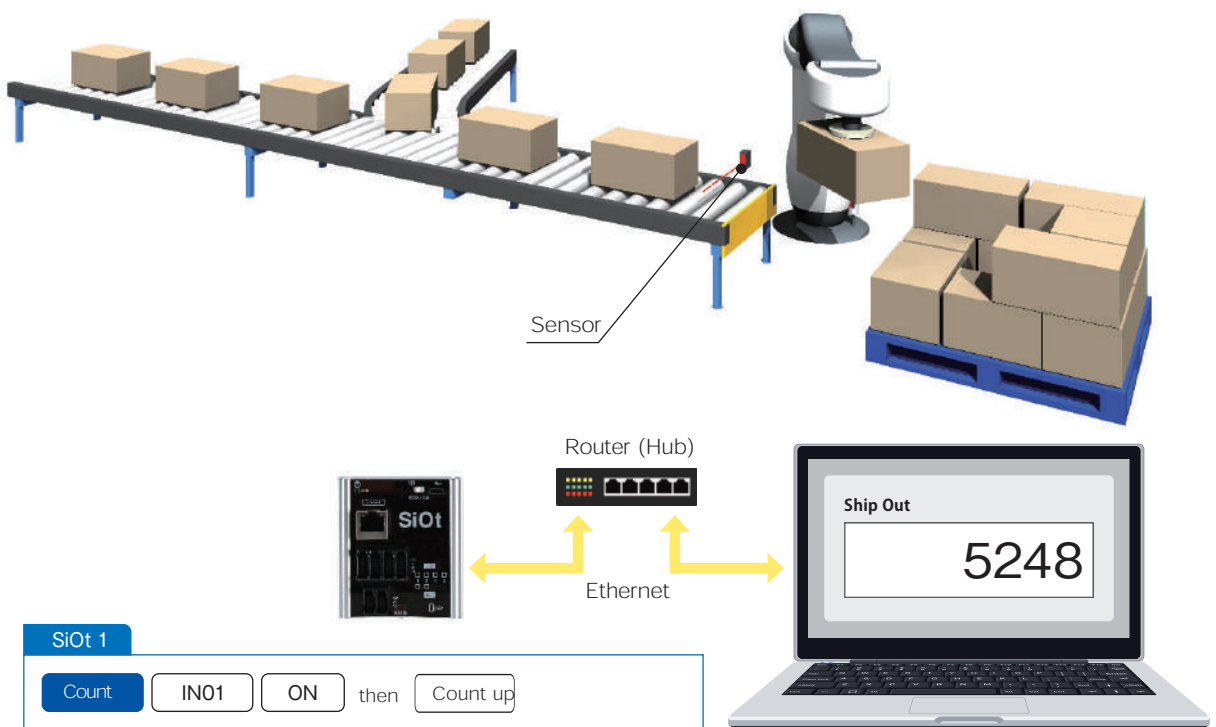
Use Case

- Email Sending
- Visualization
- Logfile Saving
- Quantity Count

57 Count display on PC showing the number of shipped cartons.

You need

- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor



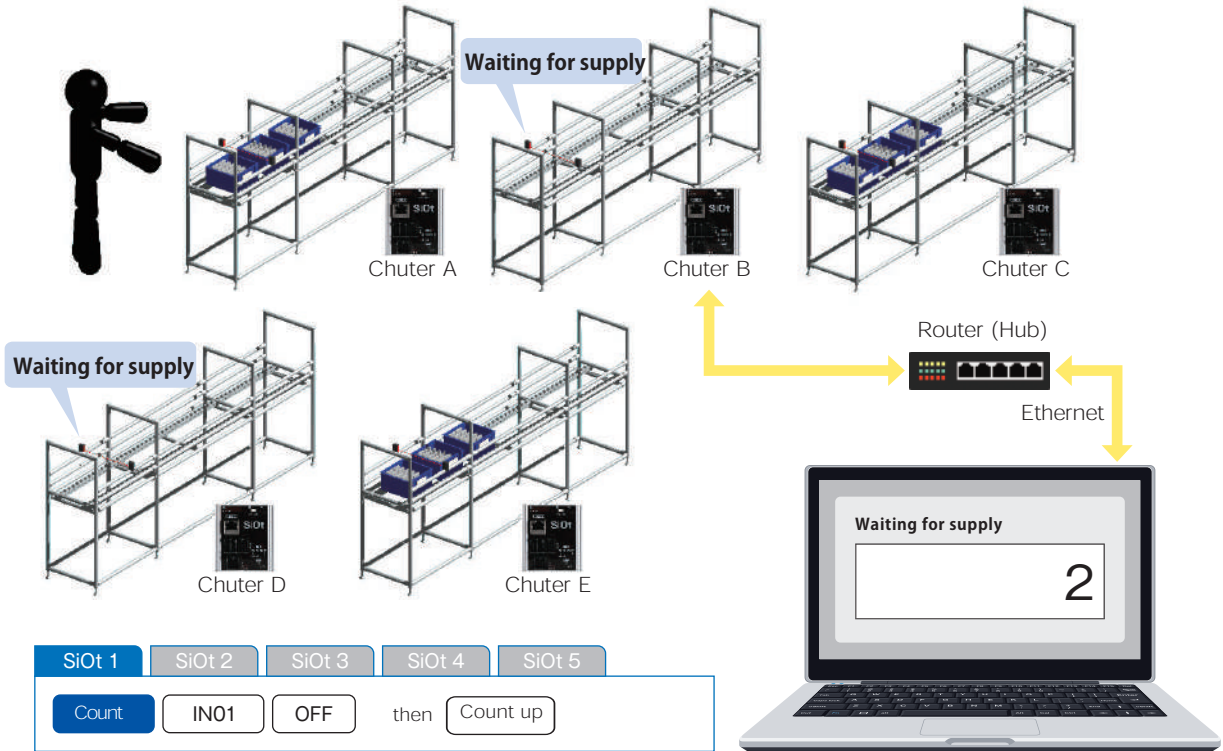
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

58 Count display on PC showing the number of waiting workpieces for supply.

You need

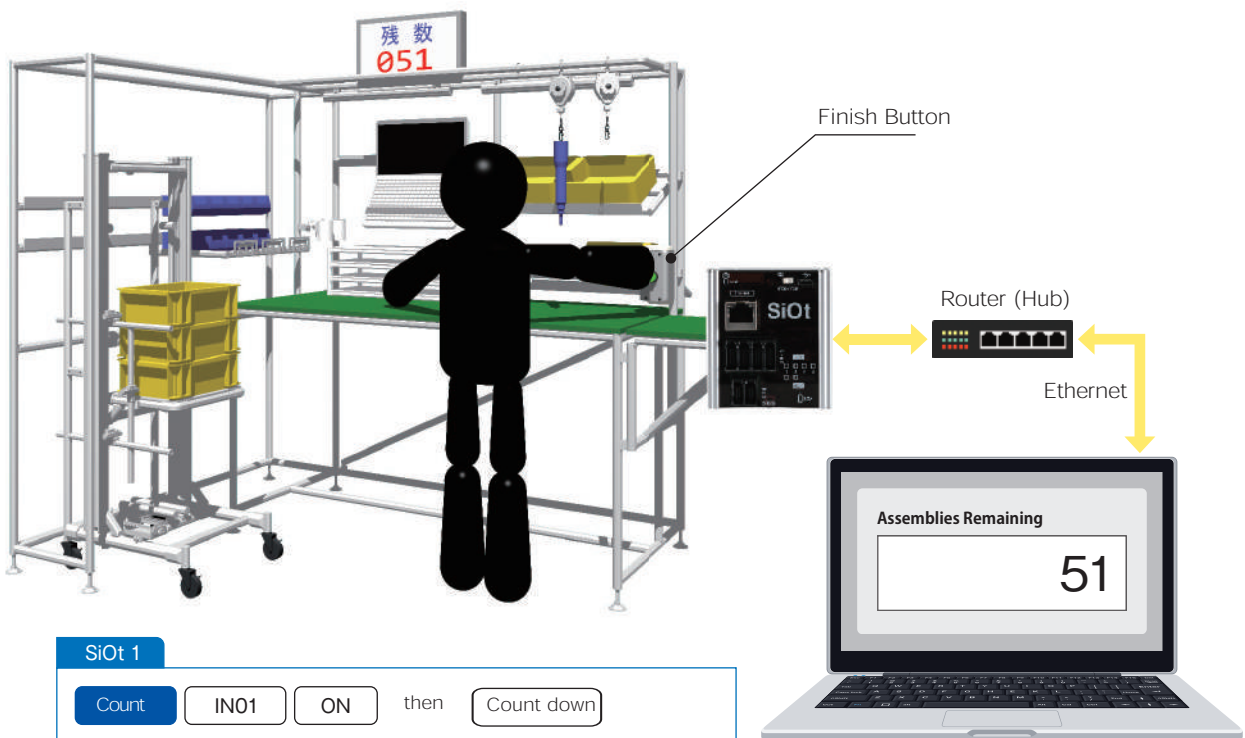
- SiOt
- LAN Cable
- PC (IoT Programmer)
- Sensor
- Router
- *Not required when connecting SiOt directly to a PC.



59 Count display on PC showing the number of unassembled parts.

You need

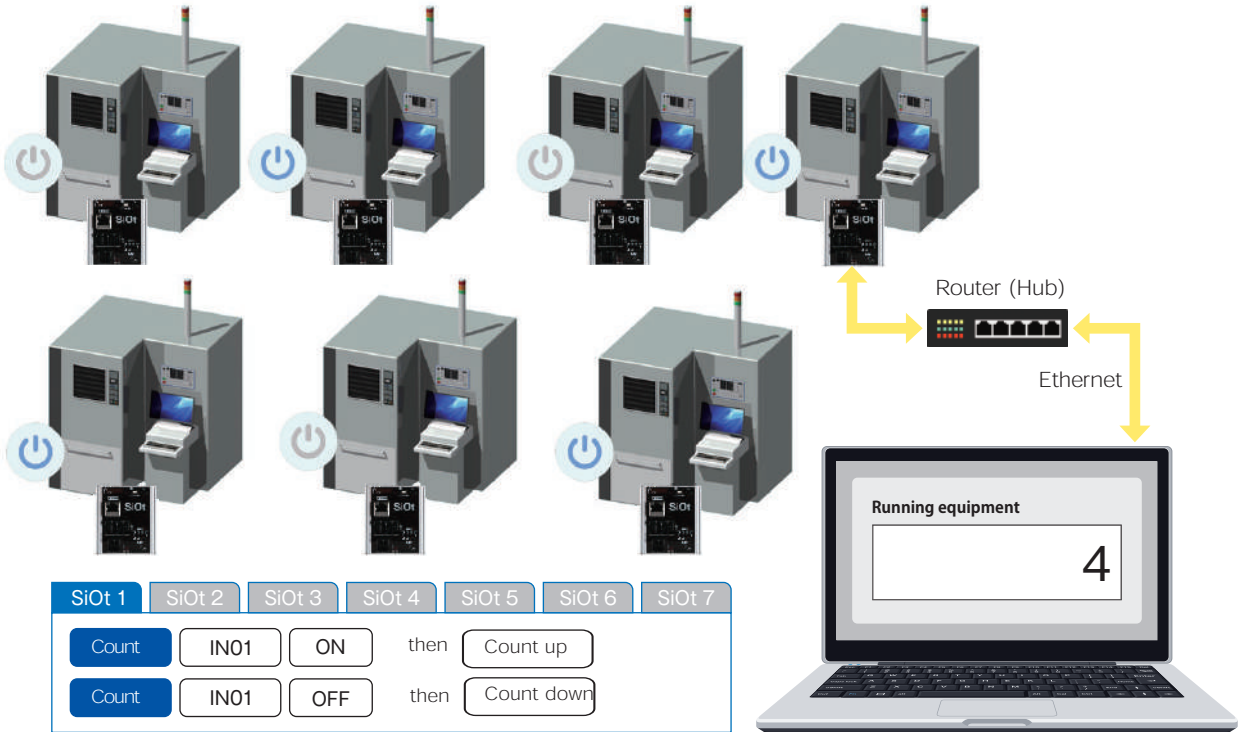
- SiOt
- LAN Cable
- PC (IoT Programmer)
- Switch
- Router
- *Not required when connecting SiOt directly to a PC.



60 Count display on PC showing the number of running equipment.

You need

- SiOt
- LAN Cable
- PC (IoT Programmer)
- Router
- IO cable for Device Connection
- * Not required when connecting SiOt directly to a PC.



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

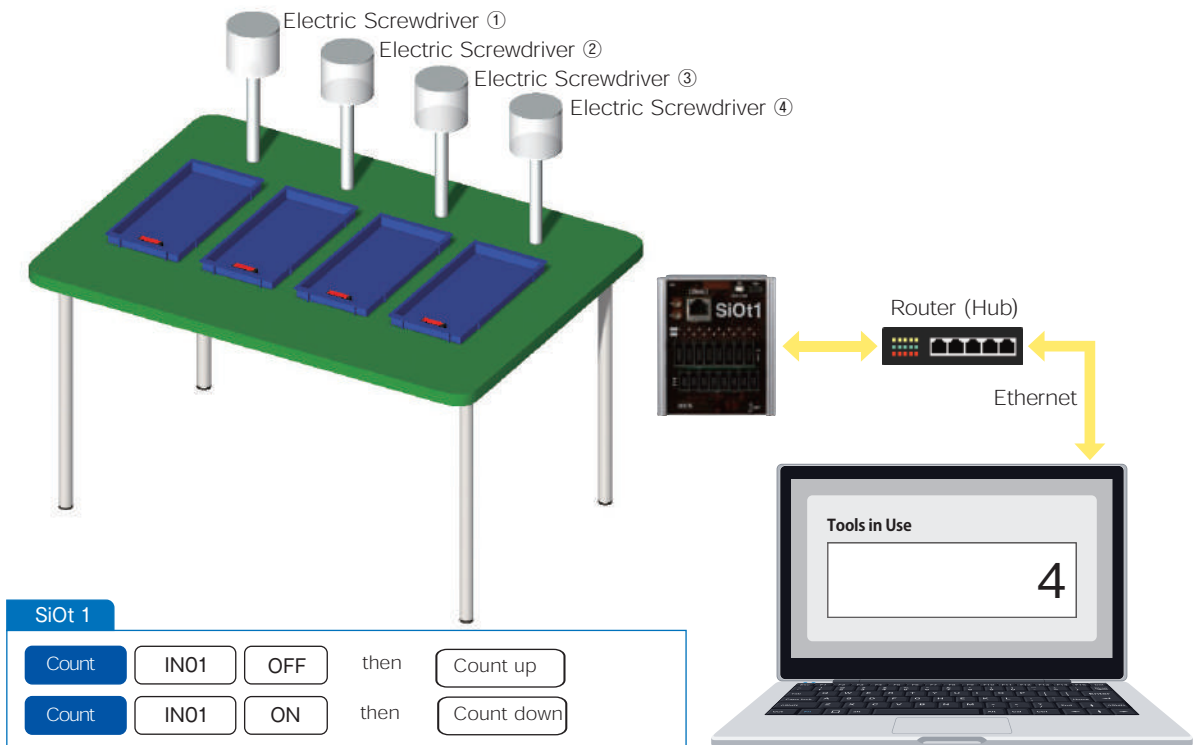
Products

Instruction

61 Count display on PC showing the number of tools in use.

You need

- SiOt1
- LAN Cable
- PC (IoT Programmer)
- Router
- Sensor
- Lamp
- * Not required when connecting SiOt directly to a PC.

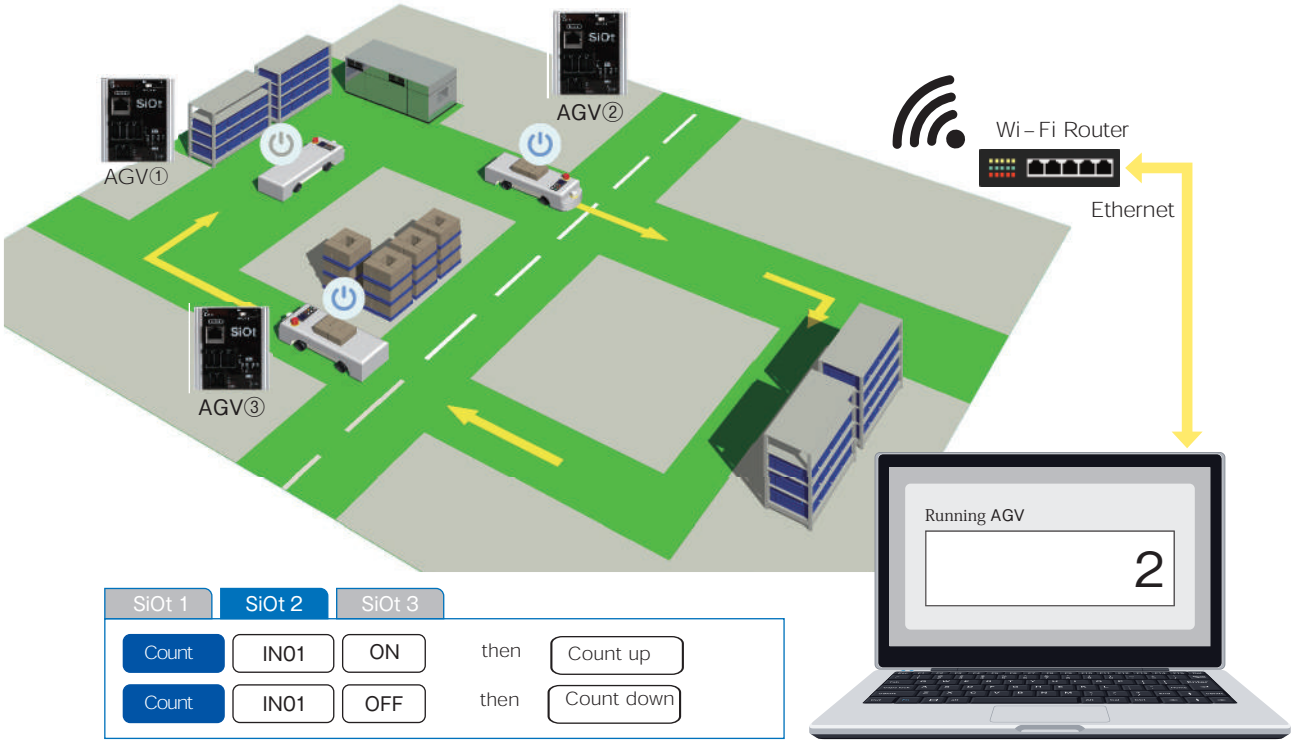


What is SiOt

62 Count display on PC showing the number of running AGV.

You need

- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- Wi-Fi Repeter
- LAN Cable
- IO Cable for AGV



Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

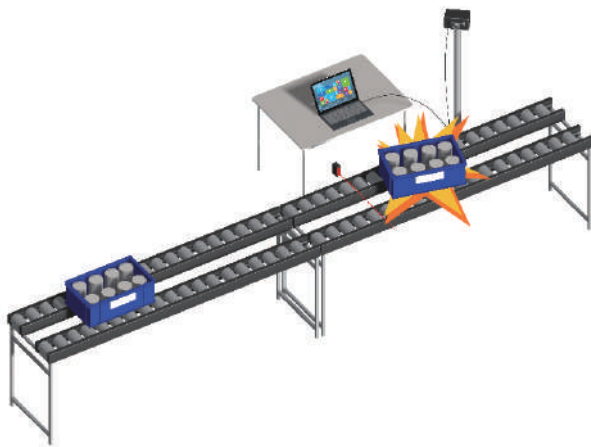
Remote Control

Original System

Products

Instruction

63 Recording before and after an error in transport with USB camera on PC.



P.52

64 Recording of door opening and closing with USB camera on PC.



P.52

65 Recording with USB camera on PC when emergency stop button is ON.



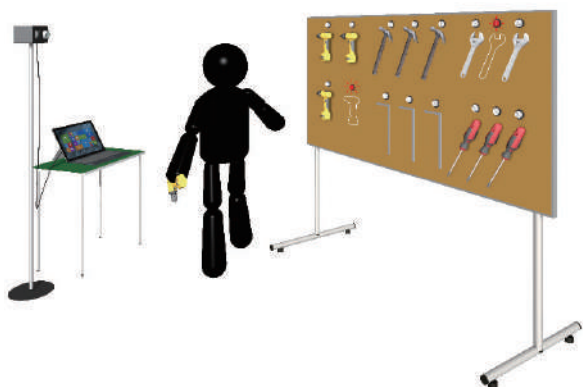
P.53

66 Recording of errors in aging tests with USB camera on PC.



P.53

67 Recording of operators who take tools or measuring equipment out with USB camera on PC.



P.54

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

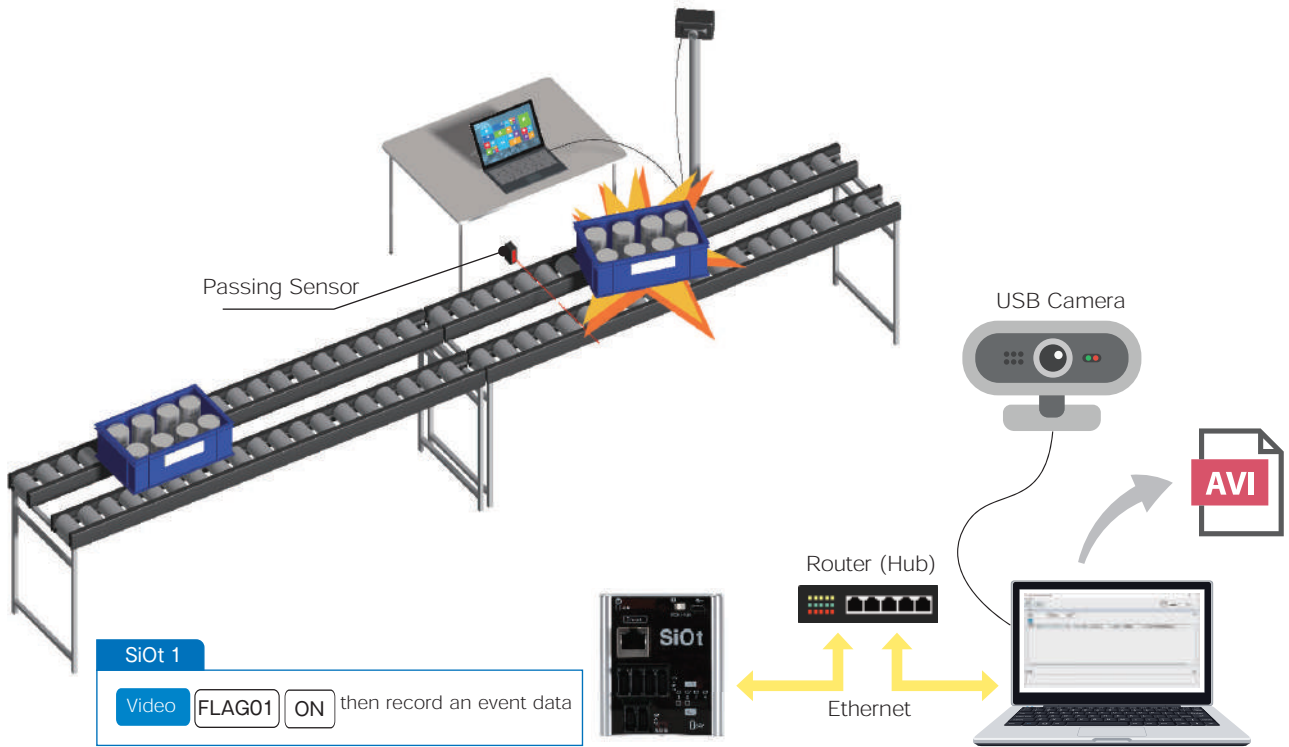
Instruction

What is SiOt

63 Recording before and after an error in transport with USB camera on PC.

You need

- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- USB Camera



Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

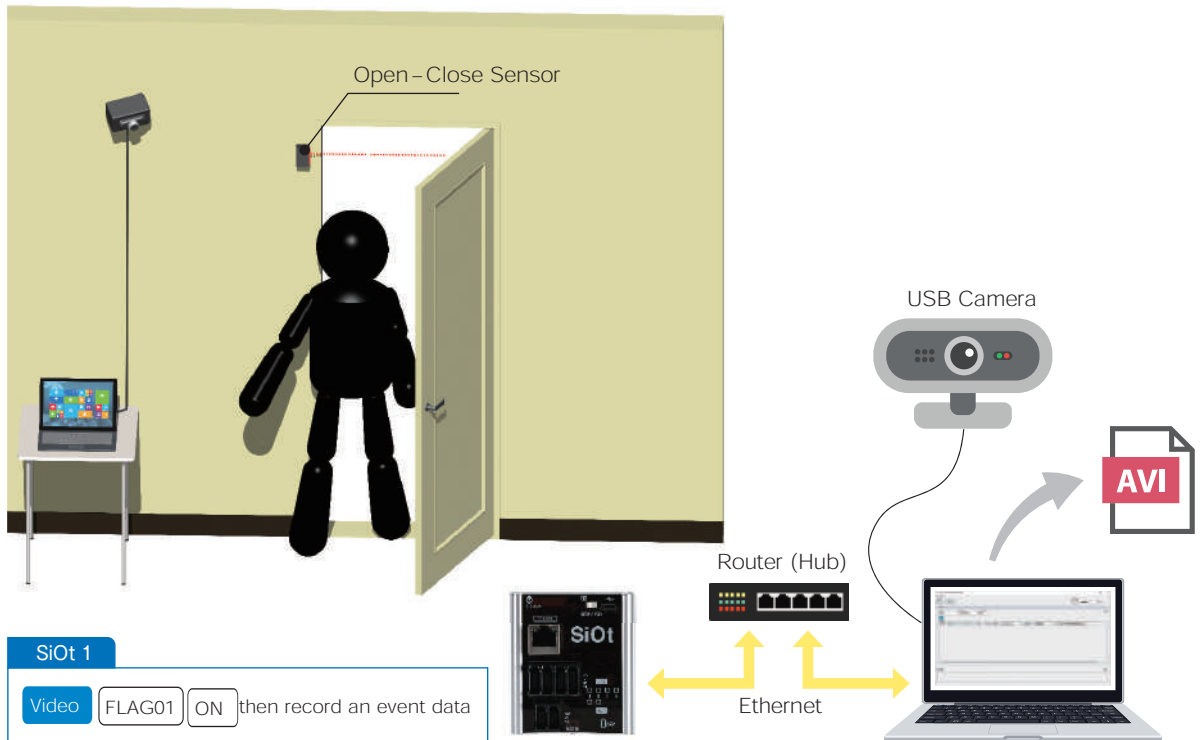
Products

Instruction

64 Recording of door opening and closing with USB camera on PC.

You need

- SiOt
- PC (IoT Programmer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- USB Camera

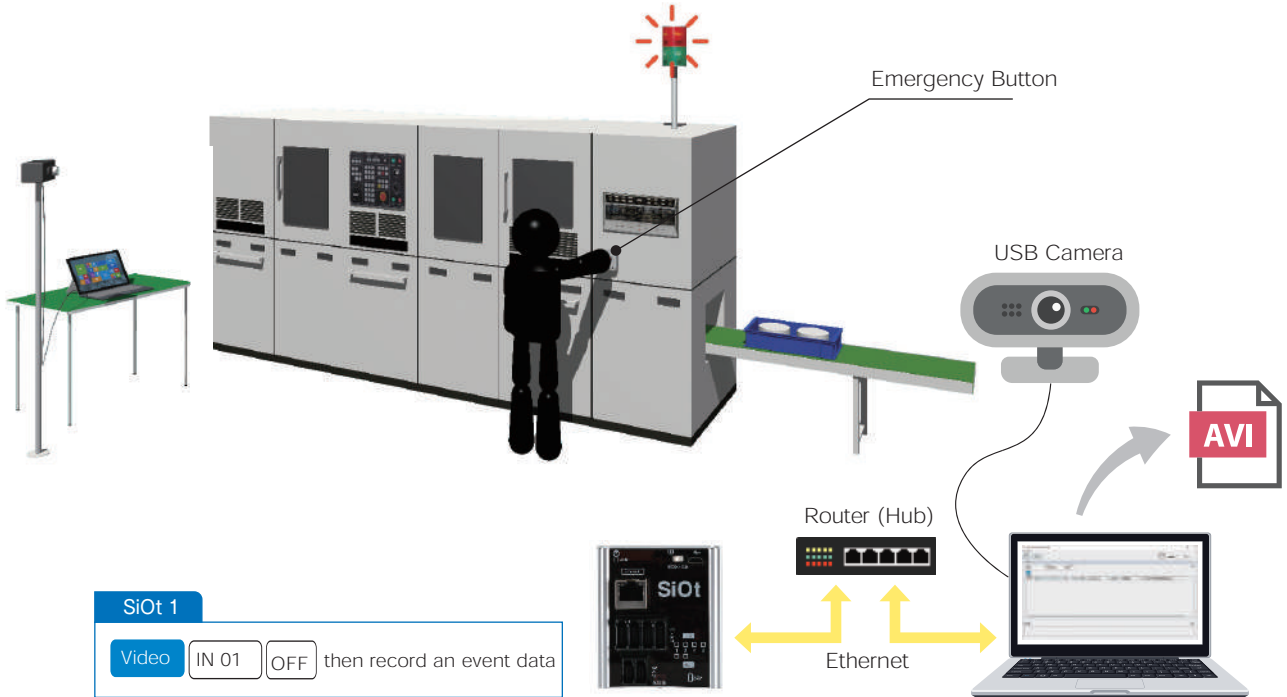


65

Recording with USB camera on PC when emergency stop button is ON.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- IO cable for Device Connection
- Router *Not required when connecting SiOt directly to a PC.
- USB Camera



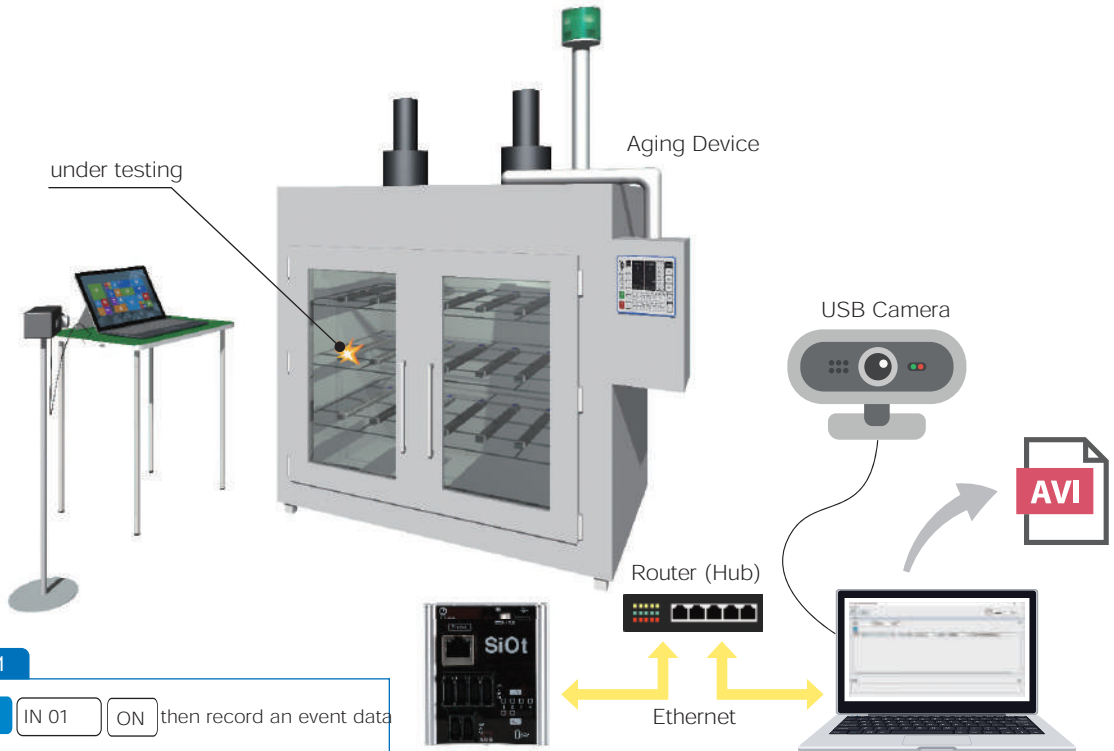
```
SiOt 1
Video IN 01 OFF then record an event data
```

66

Recording of errors in aging tests with USB camera on PC.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- IO cable for Device Connection
- Router *Not required when connecting SiOt directly to a PC.
- USB Camera



```
SiOt 1
Video IN 01 ON then record an event data
```

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

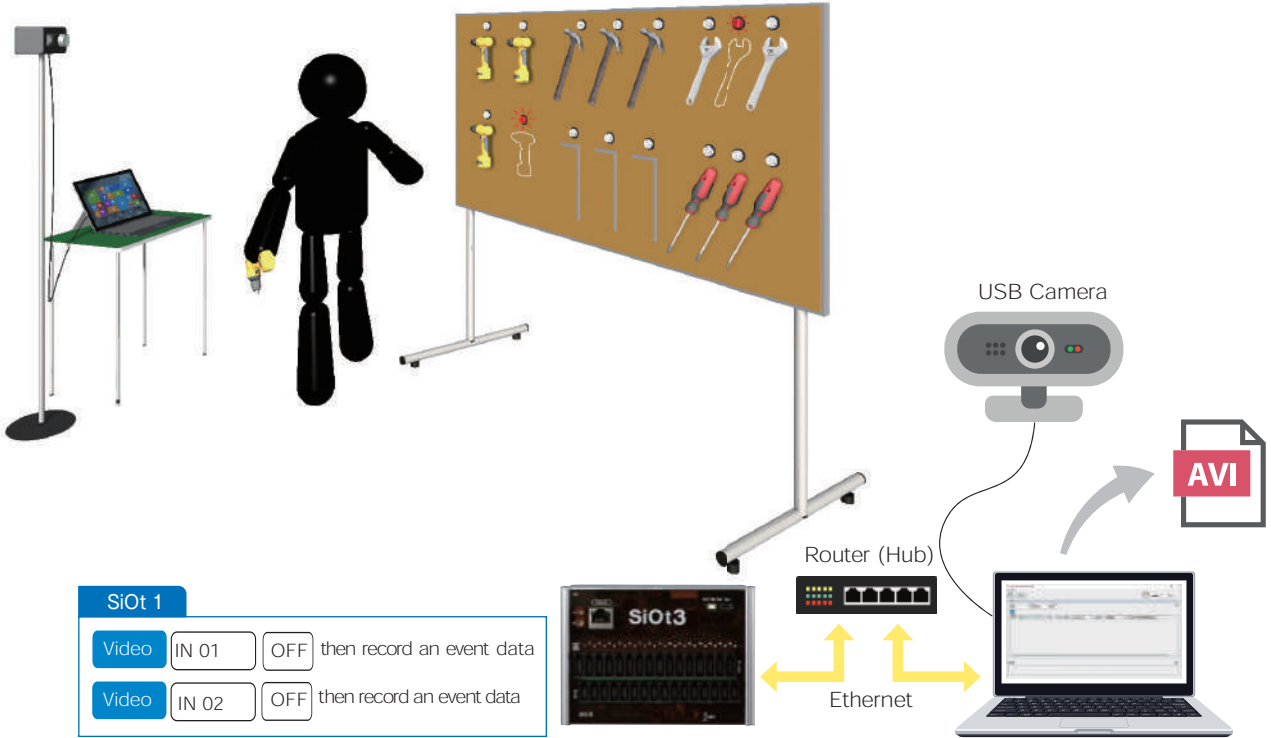
Instruction

Recording of operators who take tools or measuring equipment out with USB camera on PC.

67

You need

- SiOt3
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- Sensor
- Lamp
- USB Camera



SiOt 1			
Video	IN 01	OFF	then record an event data
Video	IN 02	OFF	then record an event data

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

68 Time / Record the assembly time.



P.56

69 Time / Record the operating time.



P.56

70 Time / Record the stop time of equipment.



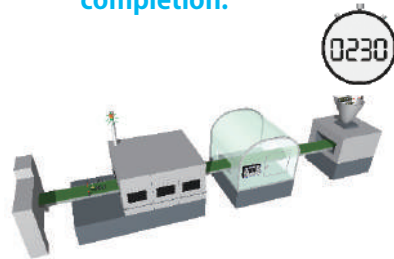
P.57

71 Time / Record the operating time of aging.



P.57

72 Time / Record the time from parts input to completion.



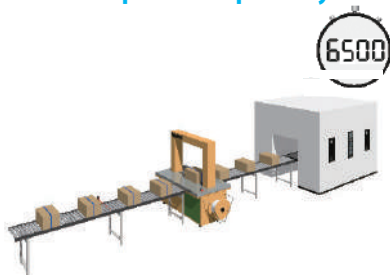
P.58

73 Compare the average assembly time for each process.



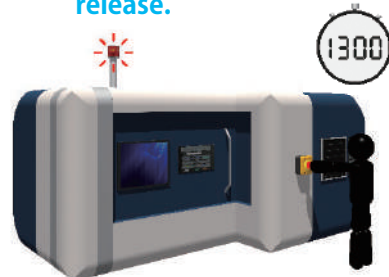
P.58

74 Time / Record the time to complete shipments of specified quantity



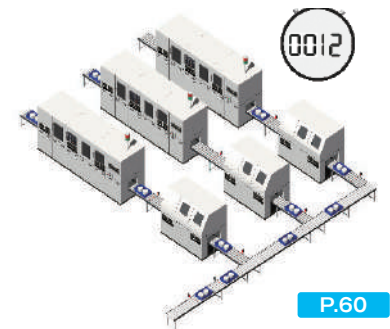
P.59

75 Time / Record the time from device error to release.



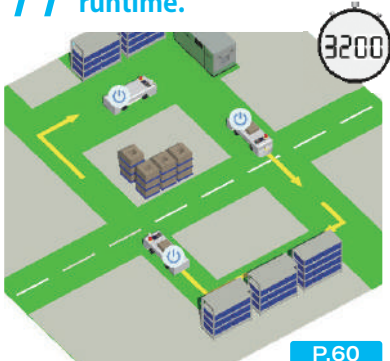
P.59

76 Time / Record the workpieces transfer time in each area.



P.60

77 Time / Record each AGV runtime.



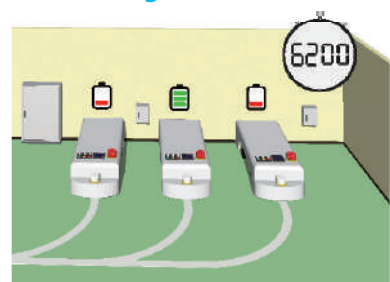
P.60

78 Time / Record the time of using meeting rooms.



P.61

79 Time how long each battery has been charged.



P.61

What is IIoT

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

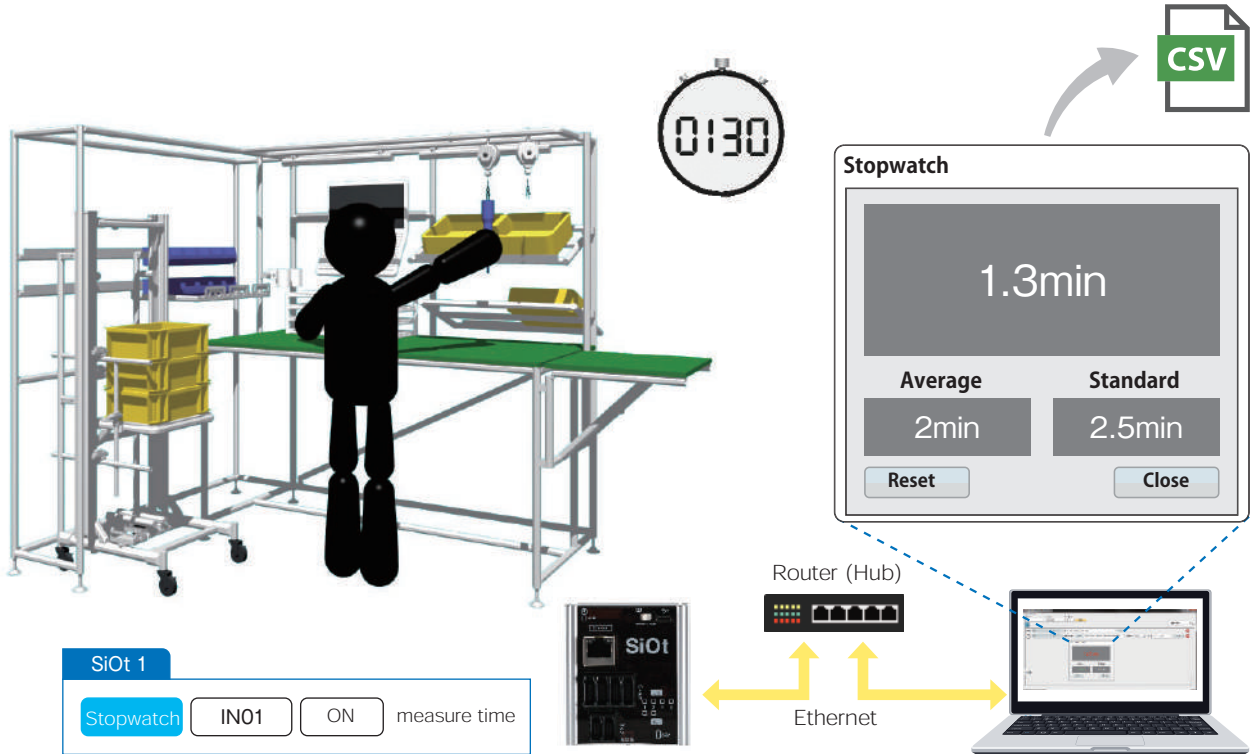
Products

Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

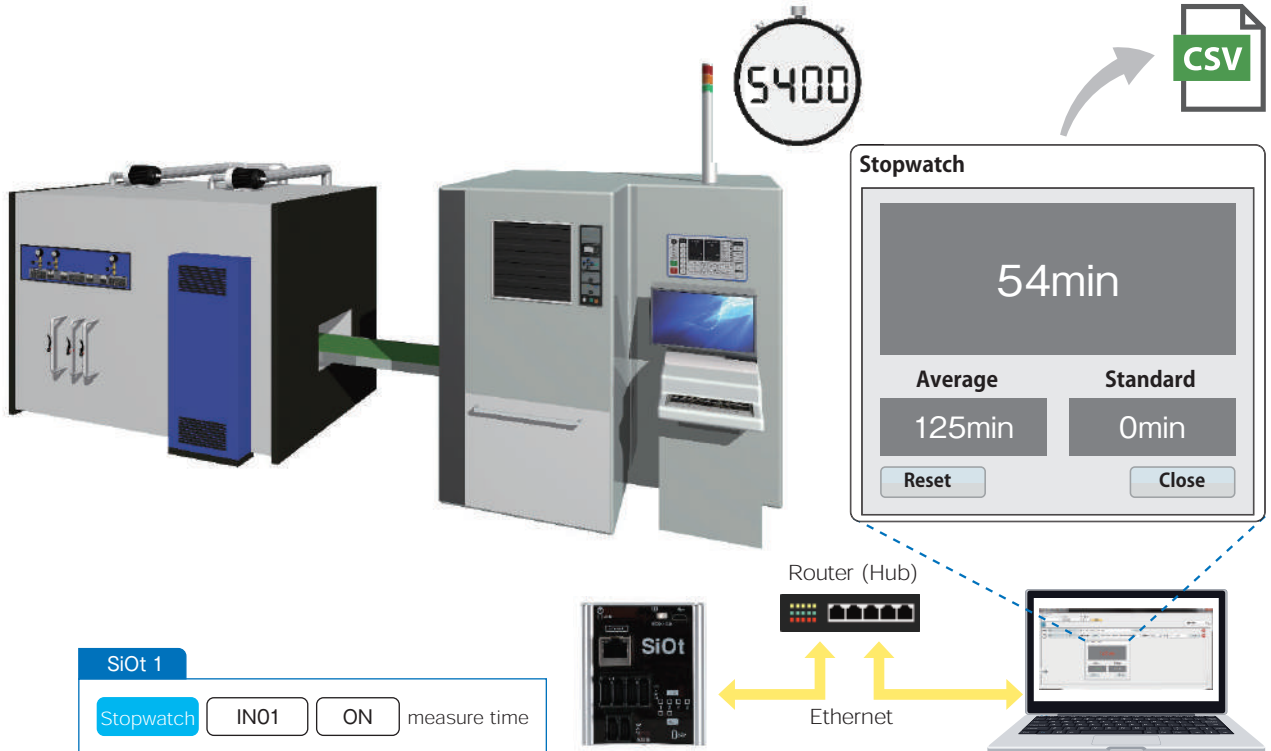
68 Time / Record the assembly time.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for Device Connection
 - Router *Not required when connecting SiOt directly to a PC.



69 Time / Record the operating time.

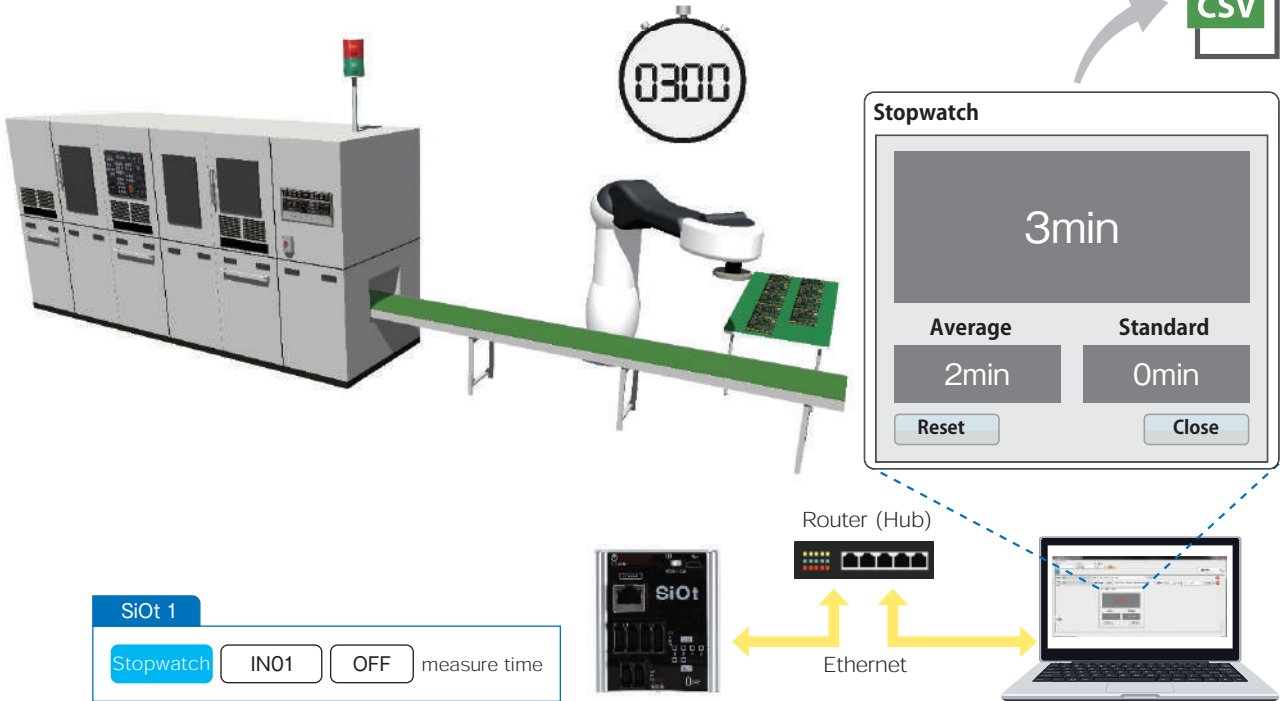
- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for Device Connection
 - Router *Not required when connecting SiOt directly to a PC.



70 Time / Record the stop time of equipment.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



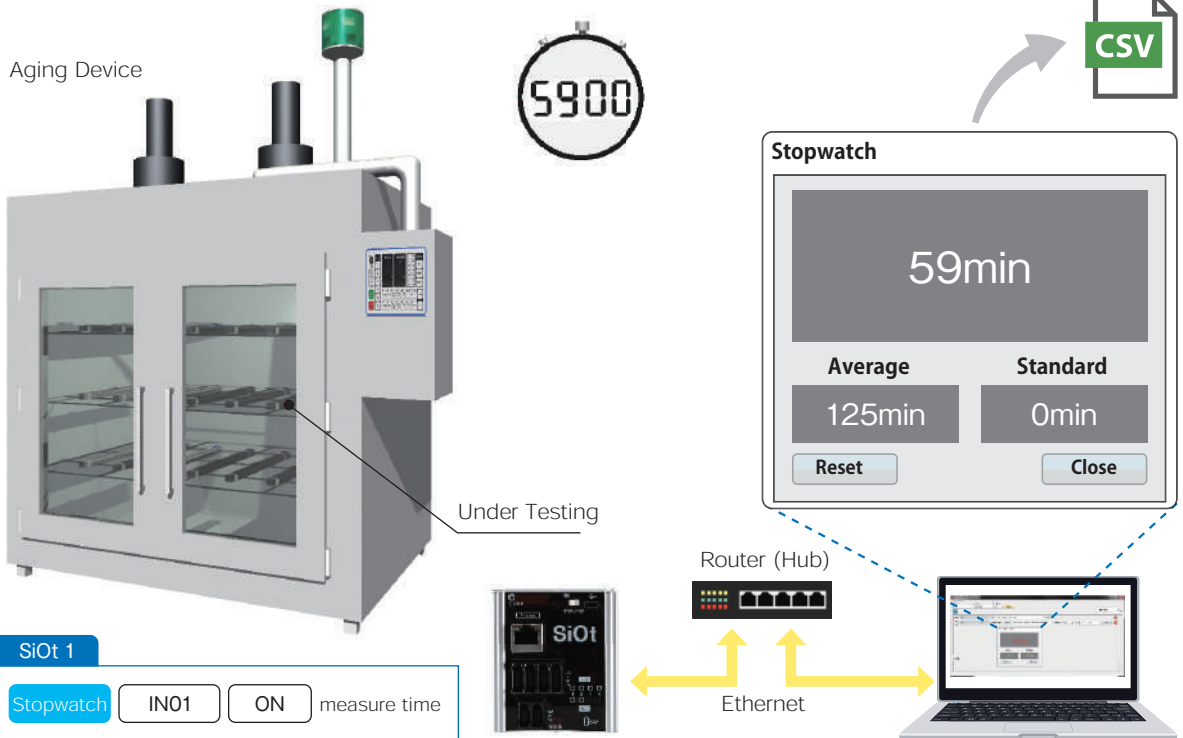
SiOt 1

Stopwatch IN01 OFF measure time

71 Time / Record the operating time of aging.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1

Stopwatch IN01 ON measure time

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

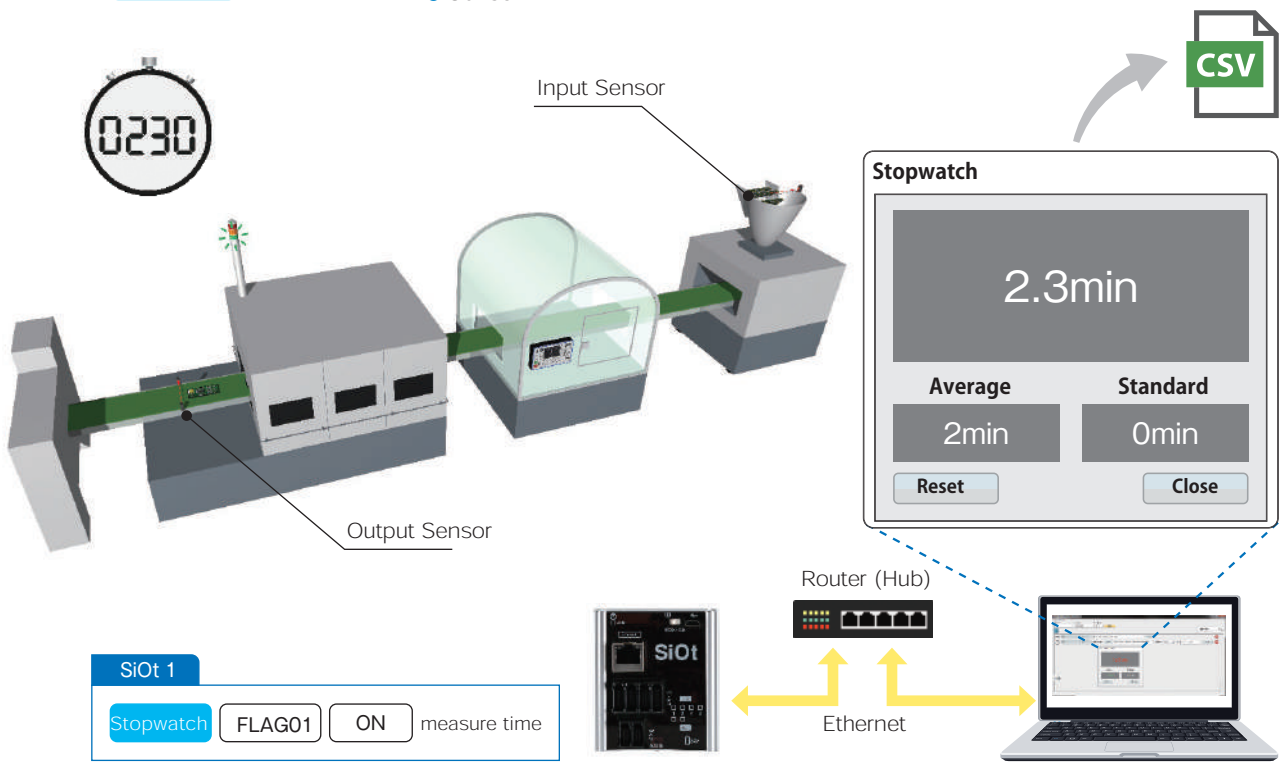
Products

Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

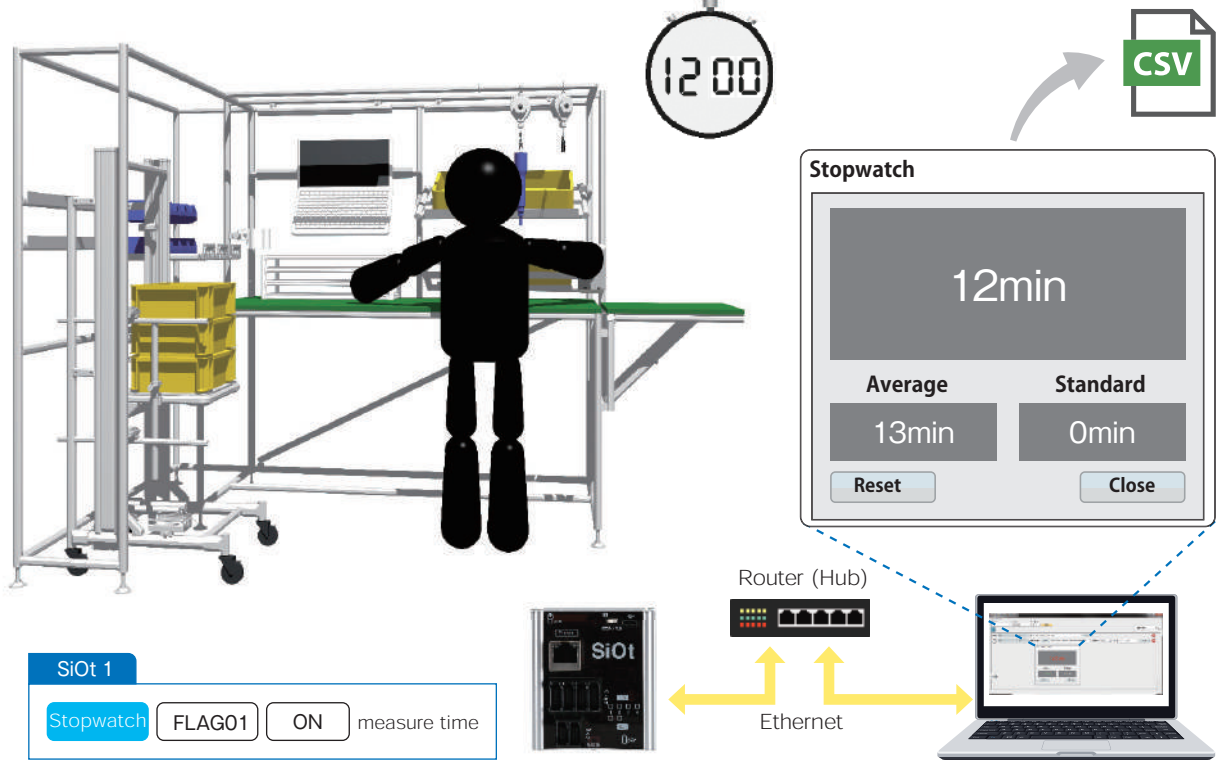
72 Time / Record the time from parts input to completion.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Sensor
 - Router *Not required when connecting SiOt directly to a PC.



73 Compare the average assembly time for each process.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Switch
 - Router *Not required when connecting SiOt directly to a PC.

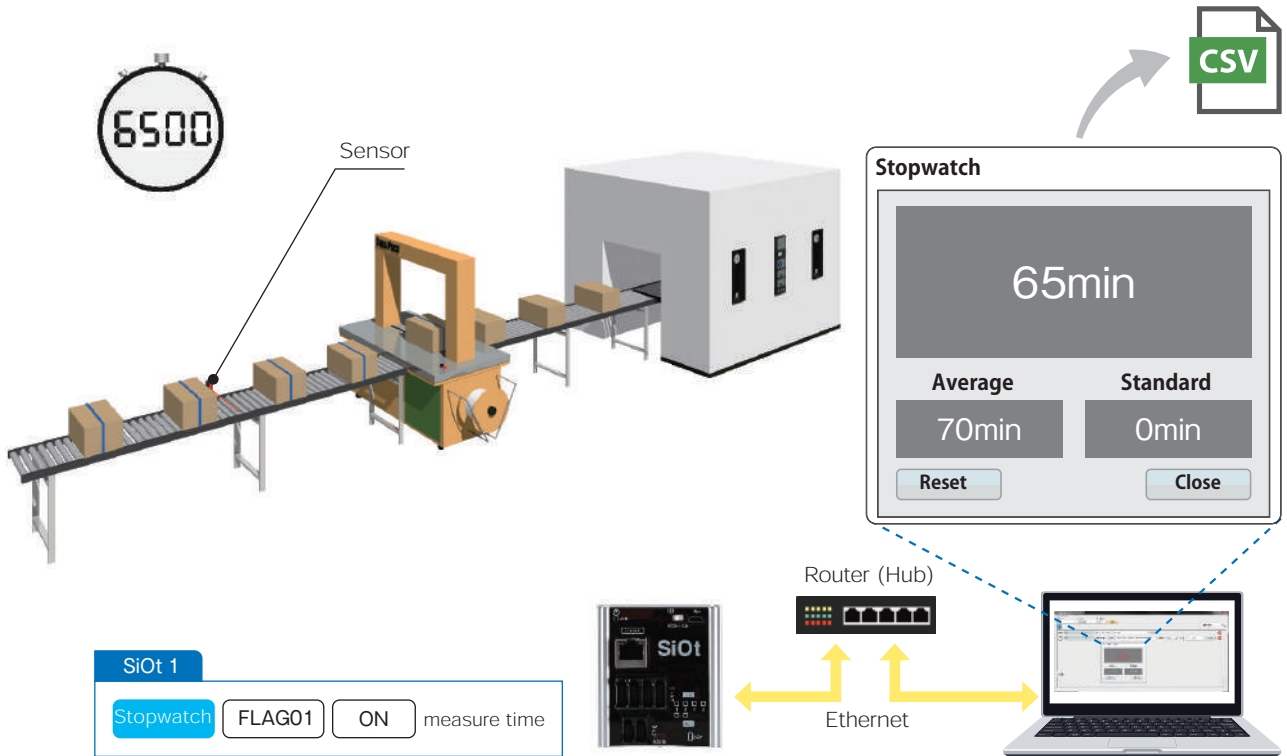


74

Time / Record the time to complete shipments of specified quantity

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router
- ※ Not required when connecting SiOt directly to a PC.
- Sensor



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

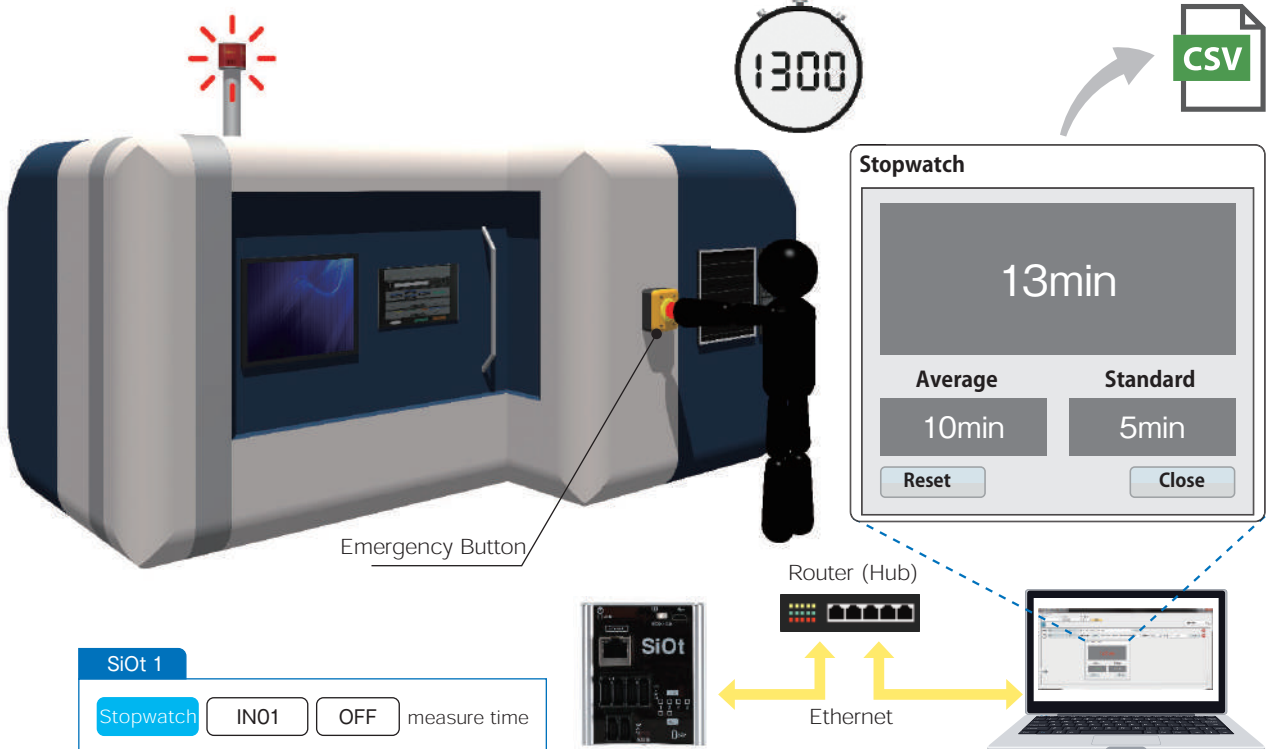
Instruction

75

Time / Record the time from device error to release.

You need

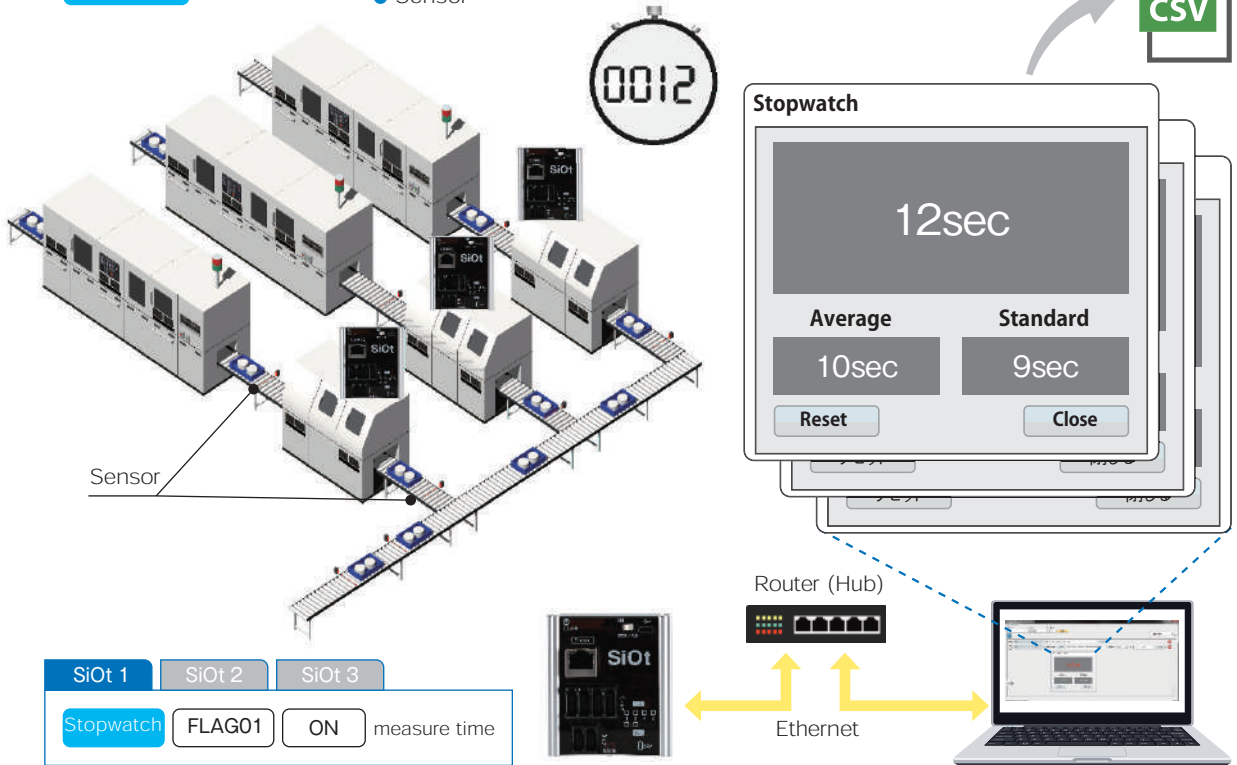
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router
- ※ Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

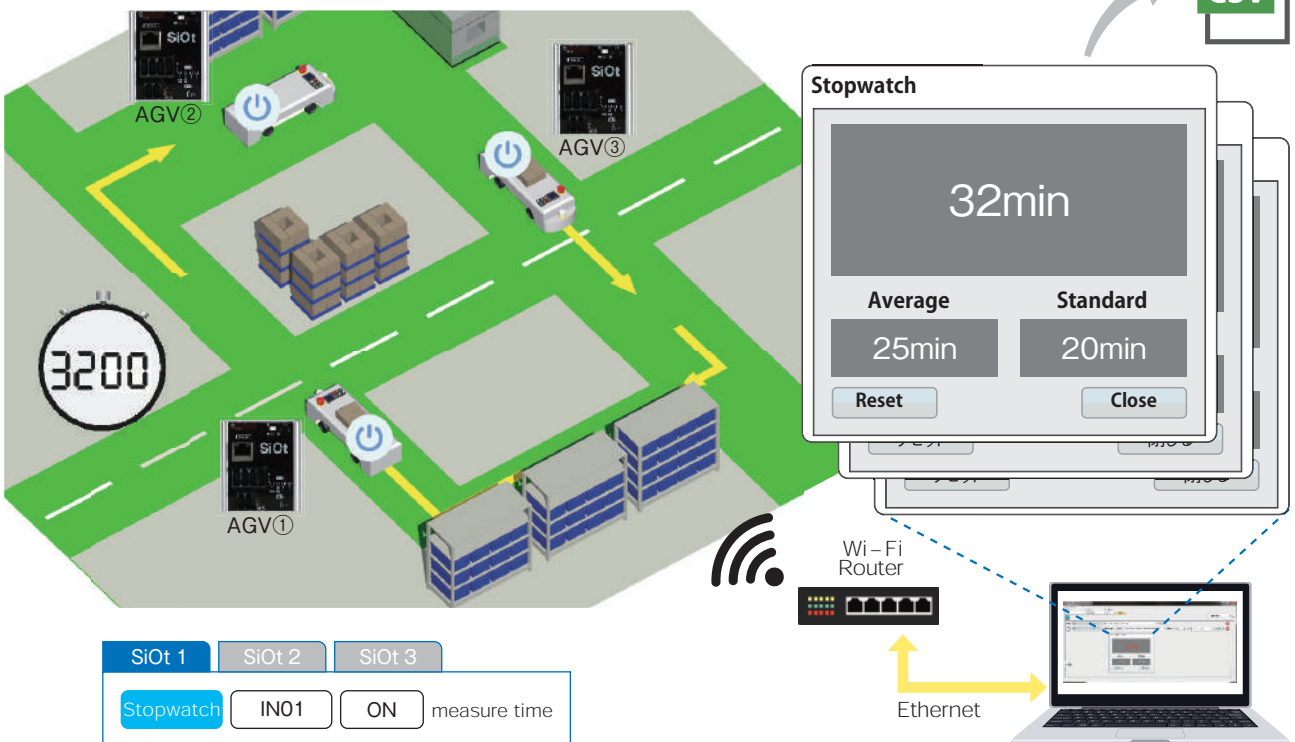
76 Time / Record the workpieces transfer time in each area.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Sensor
 - Router *Not required when connecting SiOt directly to a PC.



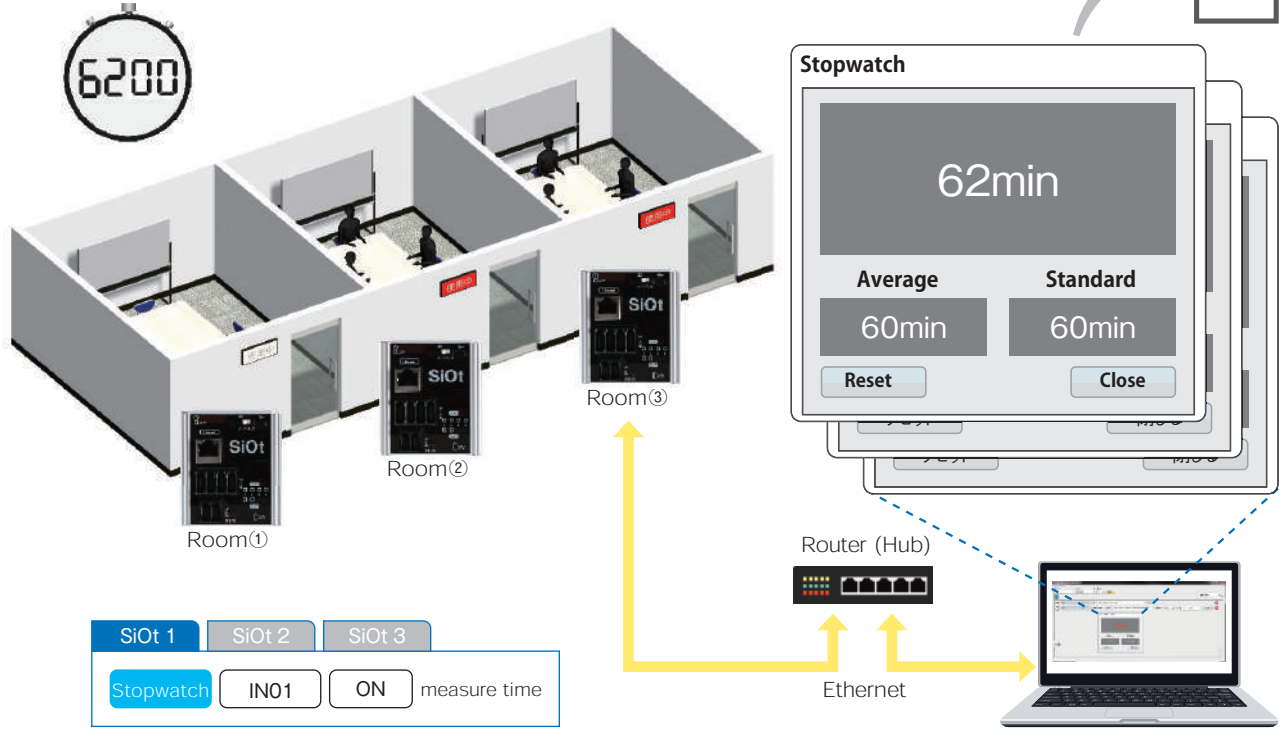
77 Time / Record each AGV runtime.

- You need**
- SiOt
 - Wi-Fi Repeter
 - PC (IoT Programmer)
 - LAN Cable
 - Wi-Fi Router
 - IO Cable for AGV



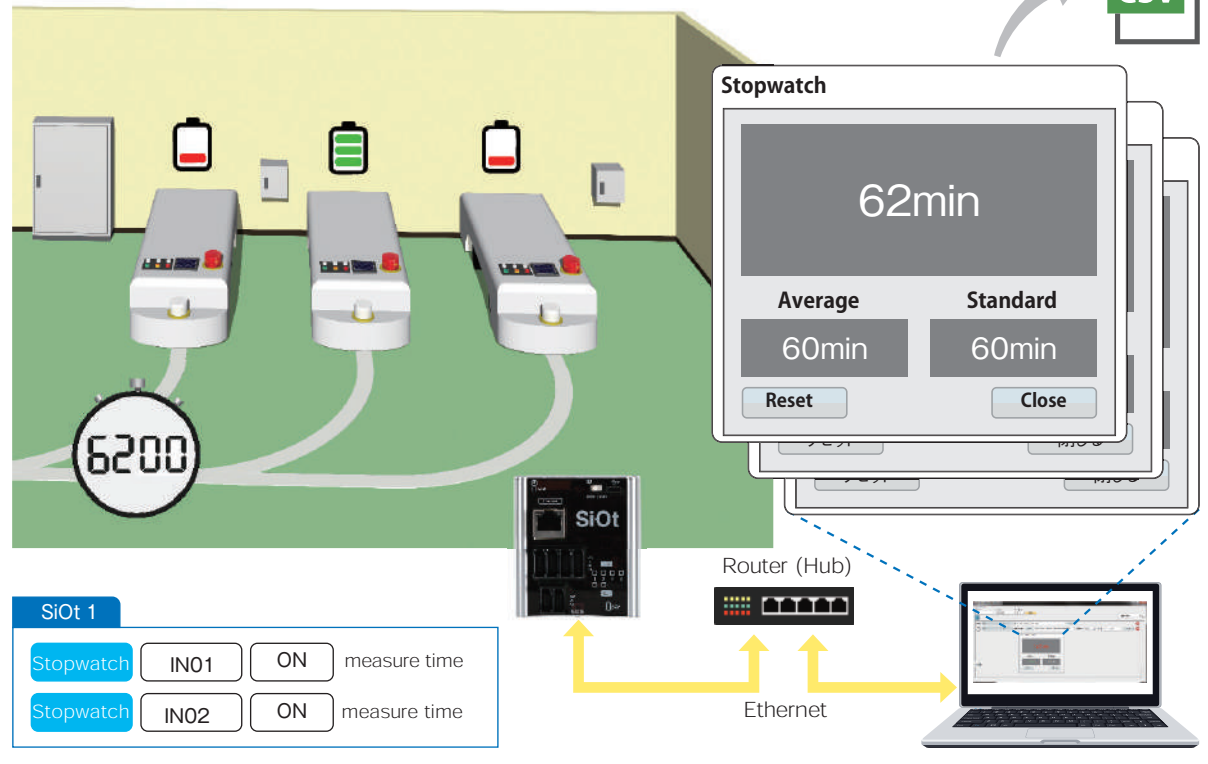
78 Time / Record the time of using meeting rooms.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Sensor
 - Router ※Not required when connecting SiOt directly to a PC.



79 Time how long each battery has been charged.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - IO Cable for AGV
 - Router ※Not required when connecting SiOt directly to a PC.



What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

80 Operate the equipment only during the daytime on weekdays.



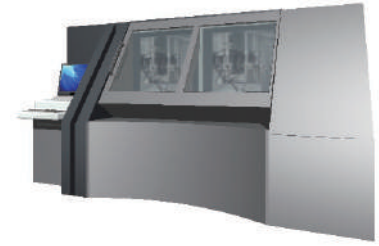
P.63

81 Control each equipment from the PC.



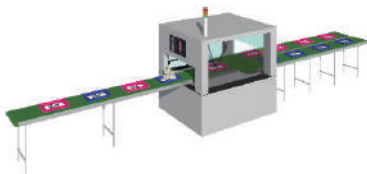
P.63

82 Setting the Device Operation Mode from the PC.



P.64

83 Switching equipment item with a barcode scanner.



P.64

84 Informs the picking shelf according to barcode scanner readings.



P.65

85 Determines whether the barcode is registered and allows control of the device.



P.65

86 Determine whether the barcode on the product is correct and turn on the lamp.



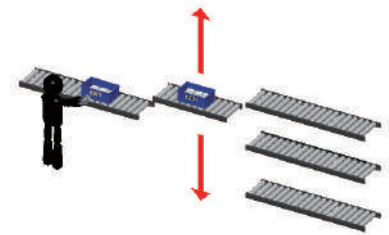
P.66

87 Control ON/OFF of tools to use depending on the item read by the barcode scanner.



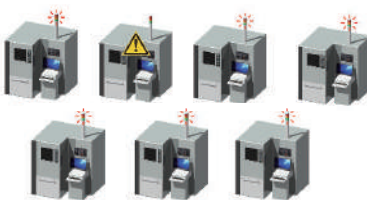
P.66

88 Sort items by reading barcodes.



P.67

89 Notify other equipment that one equipment has occurred an error.



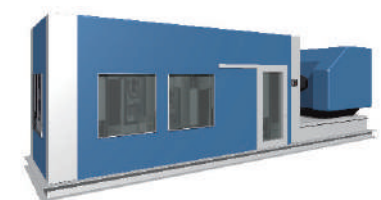
P.67

90 Control equipment in the following process to operate only when the previous process equipment finishes normally.



P.68

91 Remote locking of the electromagnetic lock of the device.



P.68

80 Operate the equipment only during the daytime on weekdays.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router*Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



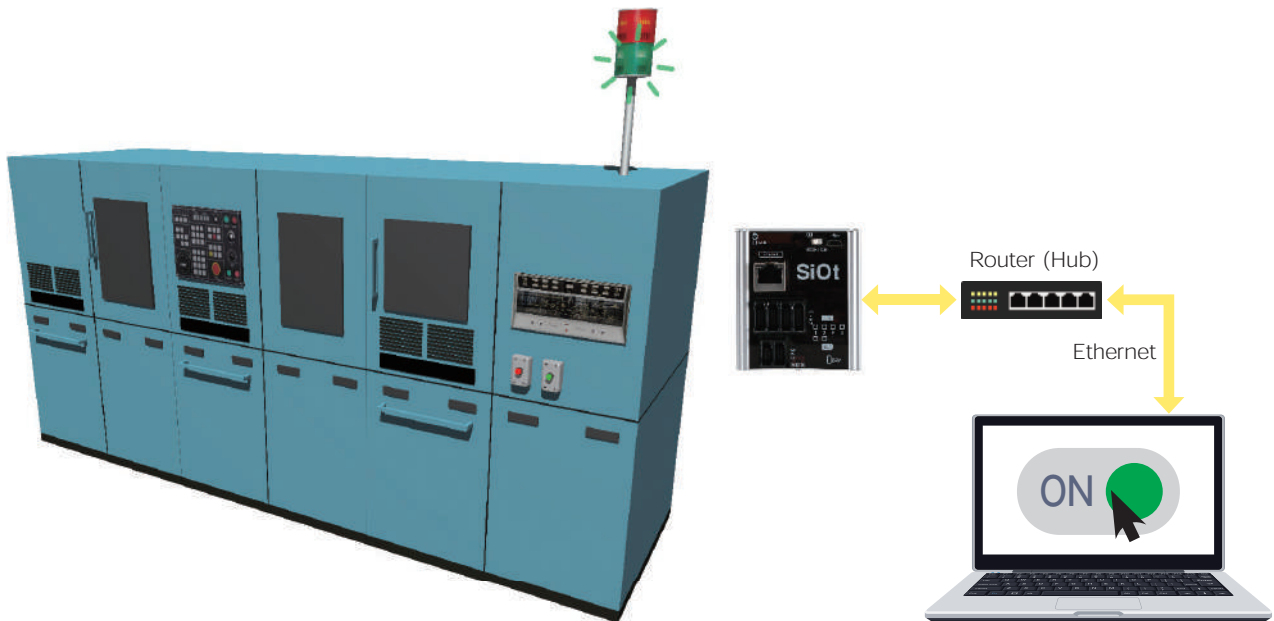
SiOt 1

Calendar Setting Then send a signal to SiO at Mon-Fri 9:00

81 Control each equipment from the PC.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1

Toggle Then send a signal to SiO with Switch ON

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

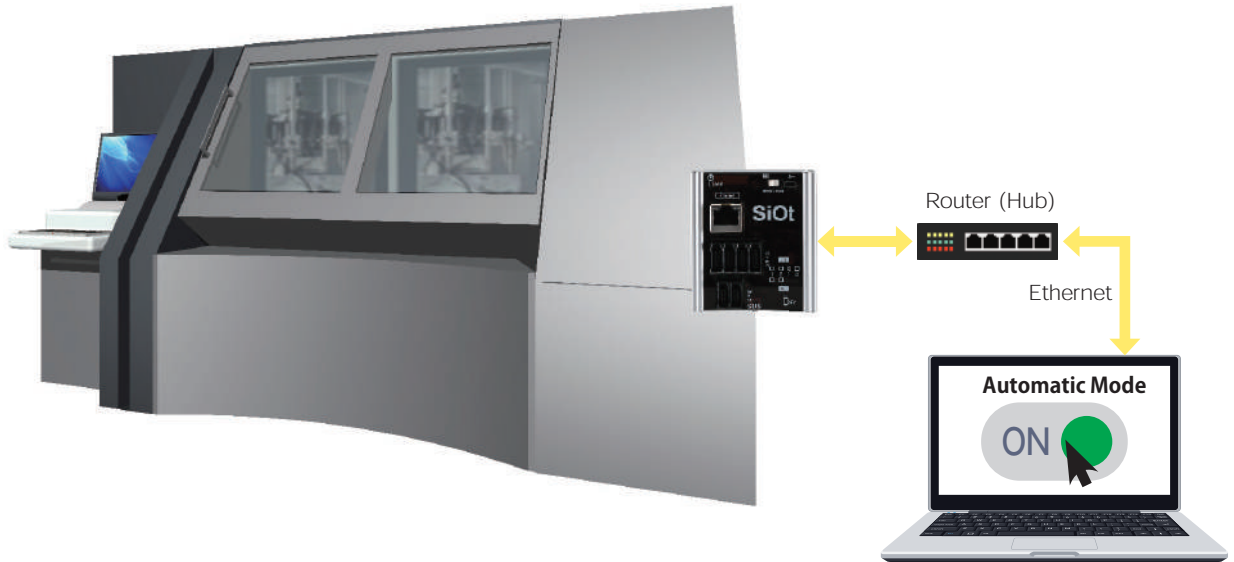
Original System

Products

Instruction

82 Setting the Device Operation Mode from the PC.

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - Router
 - ※ Not required when connecting SiOt directly to a PC.
 - IO cable for Device Connection

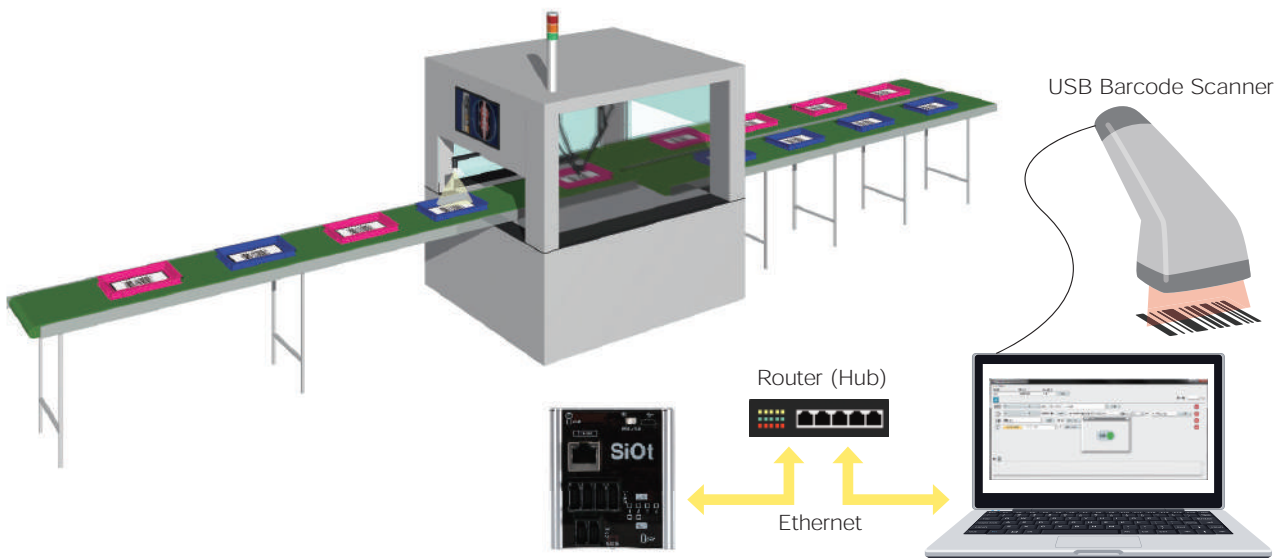


SiOt 1

Toggle Then send a signal to SiO with Switch ON

83 Switching equipment item with a barcode scanner

- You need**
- SiOt
 - LAN Cable
 - PC (IoT Programmer)
 - IO cable for Device Connection
 - Router
 - USB Barcode Scanner
 - ※ Not required when connecting SiOt directly to a PC.



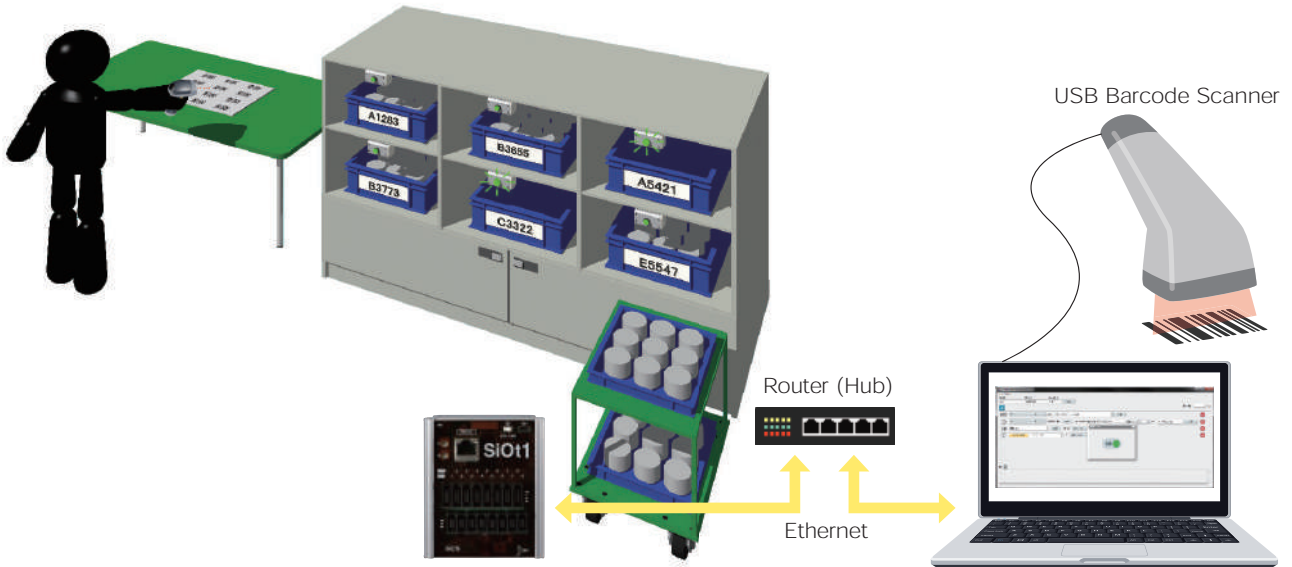
SiOt 1

Barcode is Match then send a signal to SiO

Barcode is Match then send a signal to SiO

84 Informs the picking shelf according to barcode scanner readings.

- You need**
- SiOt1
 - LAN Cable
 - PC (IoTProgrammer)
 - Lamp
 - Router *Not required when connecting SiOt directly to a PC.
 - USB Barcode Scanner



SiOt 1	
Barcode	is 837267 Match then send a signal to SiO
Barcode	is 837412 Match then send a signal to SiO

85 Determines whether the barcode is registered and allows control of the device.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - IO cable for Device Connection
 - Router *Not required when connecting SiOt directly to a PC.
 - USB Barcode Scanner



SiOt 1	
Barcode	is 837267 Match then send a signal to SiO

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

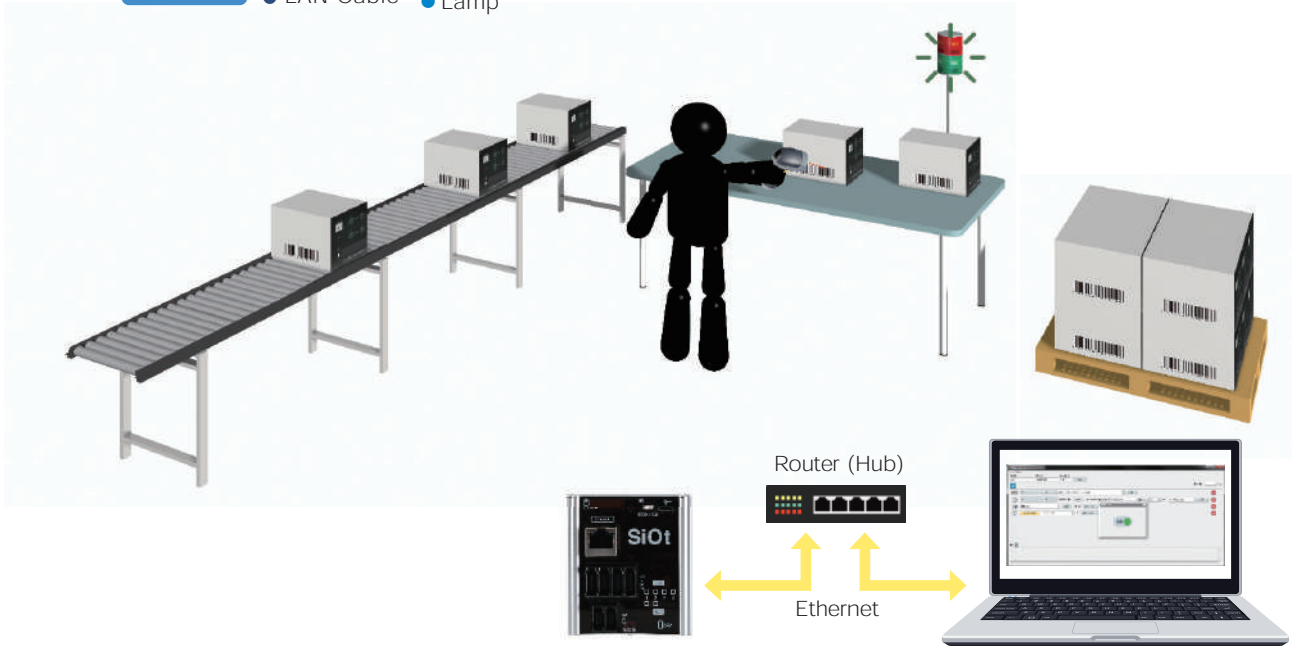
Original System

Products

Instruction

86 Determine whether the barcode on the product is correct and turn on the lamp.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Router
 - Lamp
 - USB Barcode Scanner
- *Not required when connecting SiOt directly to a PC.

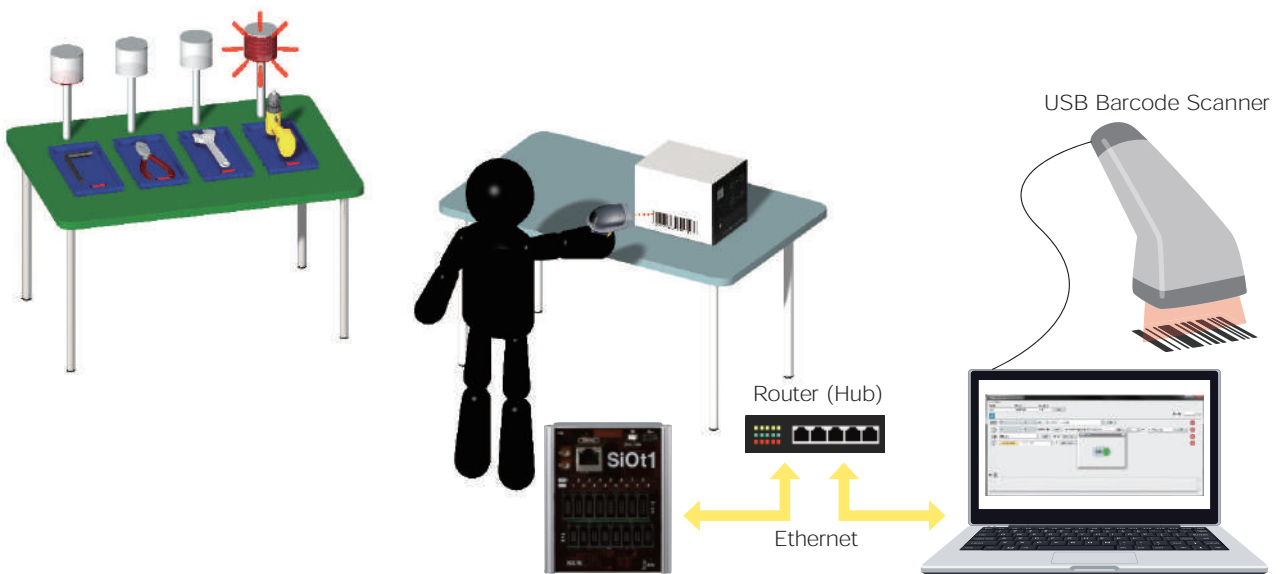


```

SiOt 1
Barcode is 837267 Match then send a signal to SiO
    
```

87 Control ON/OFF of tools to use depending on the item read by the barcode scanner.

- You need**
- SiOt
 - LAN Cable
 - PC (IoTProgrammer)
 - Sensor
 - Router
 - Lamp
 - USB Barcode Scanner
- *Not required when connecting SiOt directly to a PC.



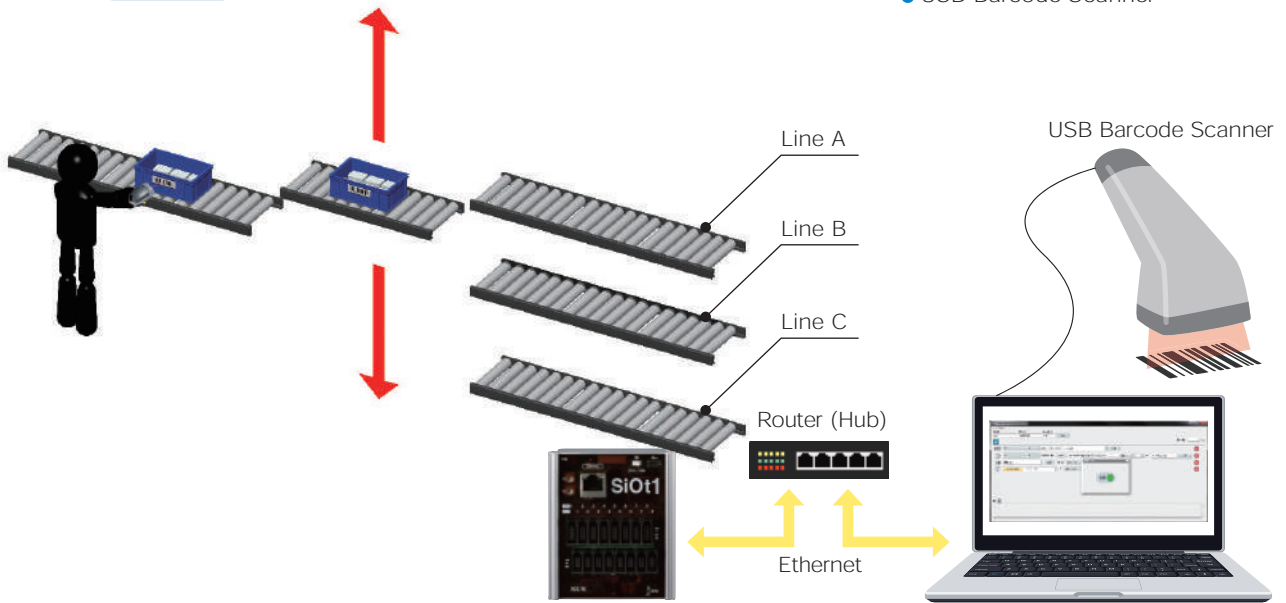
```

SiOt 1
Barcode is 837267 Match then send a signal to SiO
Barcode is 837548 Match then send a signal to SiO
    
```

88 Sort items by reading barcodes.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection
- USB Barcode Scanner



SiOt 1

Barcode is Match then send a signal to SiO

Barcode is Match then send a signal to SiO

89 Notify other equipment that one equipment has occurred an error.

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1 **SiOt 2** **SiOt 3** **SiOt 4** **SiOt 5** **SiOt 6** **SiOt 7**

Controller Coordination Then send a signal to SiO

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

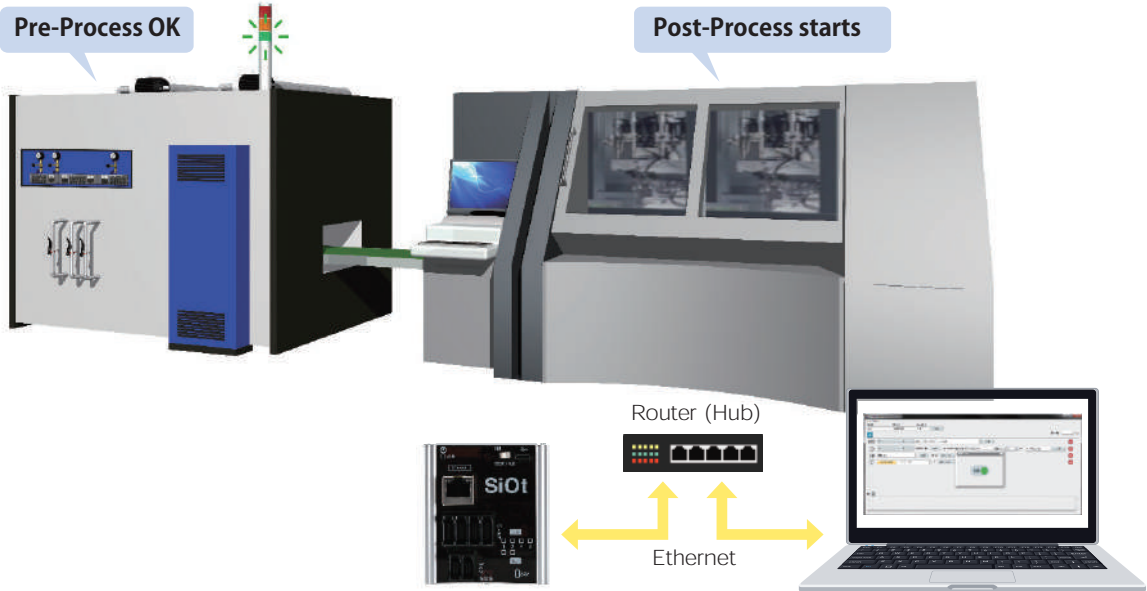
Instruction

Control equipment in the following process to operate only when the previous process equipment finishes normally.

90

You need

- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1 SiOt 2

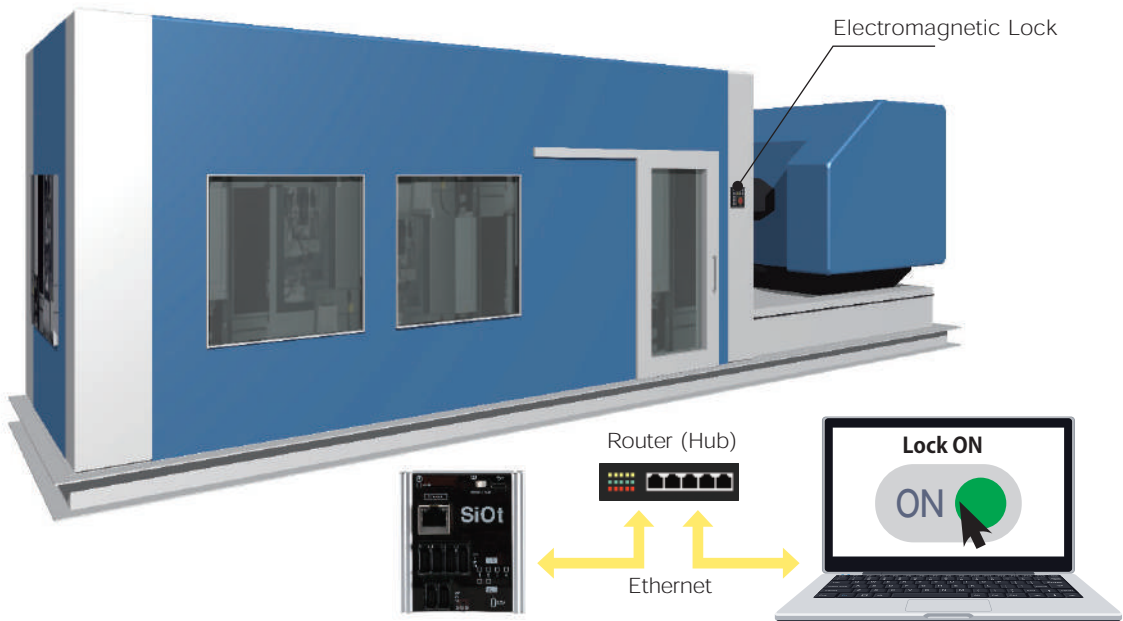
Controller Coordination SIO2 IN01 ON Then send a signal to SiO

91

Remote locking of the electromagnetic lock of the device.

You need

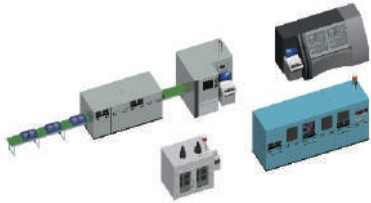
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1

Toggle Then send a signal to SiO with Switch ON

92 Display the operation rates of each device on PC.



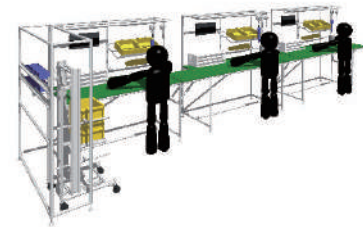
P.70

93 Visualization of daily progress based on the completion signal of each device.



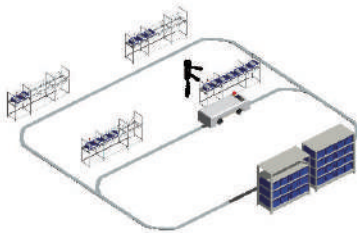
P.70

94 Display the graph of tact time of each process to PC.



P.71

95 Operate the AGV only when instructed to collect parts.



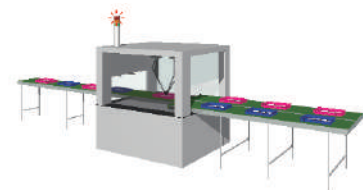
P.71

96 Print out the slip automatically when receive the test result "PASS".



P.72

97 Run an Excel macro on the PC when an error occurs on the device.



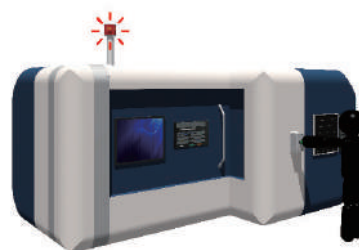
P.72

98 Control the device with link to internal software.



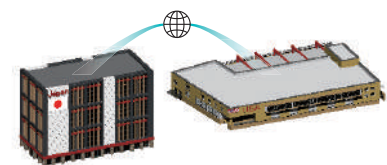
P.73

99 Record the state of device to Internal Database.



P.73

100 Monitor the status of overseas factories from headquarters.



P.74

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

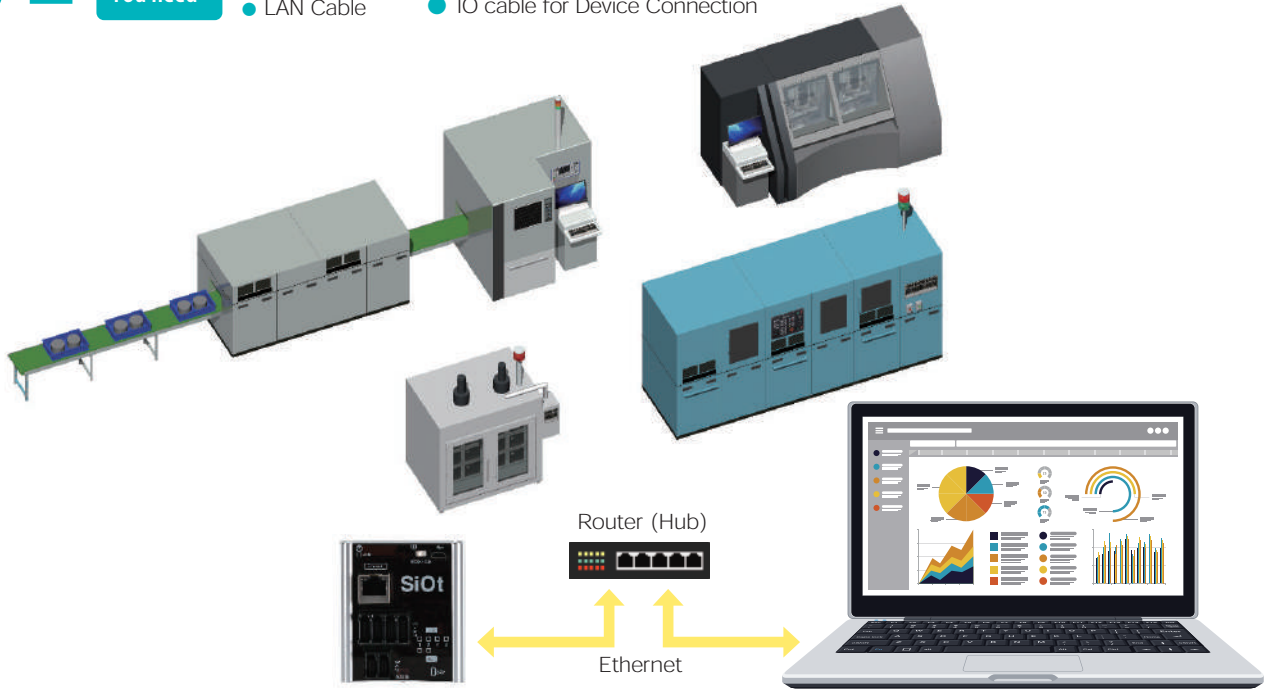
Products

Instruction

92 Display the operation rates of each device on PC.

You need

- SiOt
- PC
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- IO cable for Device Connection

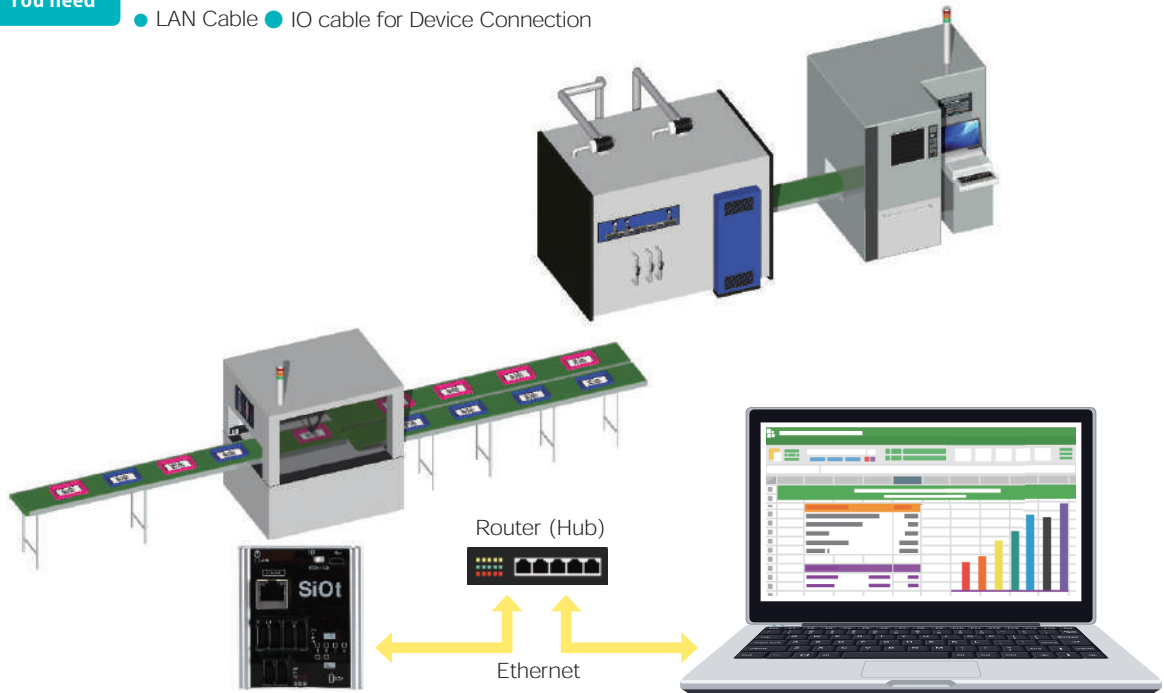


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

93 Visualization of daily progress based on the completion signal of each device.

You need

- SiOt
- PC
- Router *Not required when connecting SiOt directly to a PC.
- LAN Cable
- IO cable for Device Connection

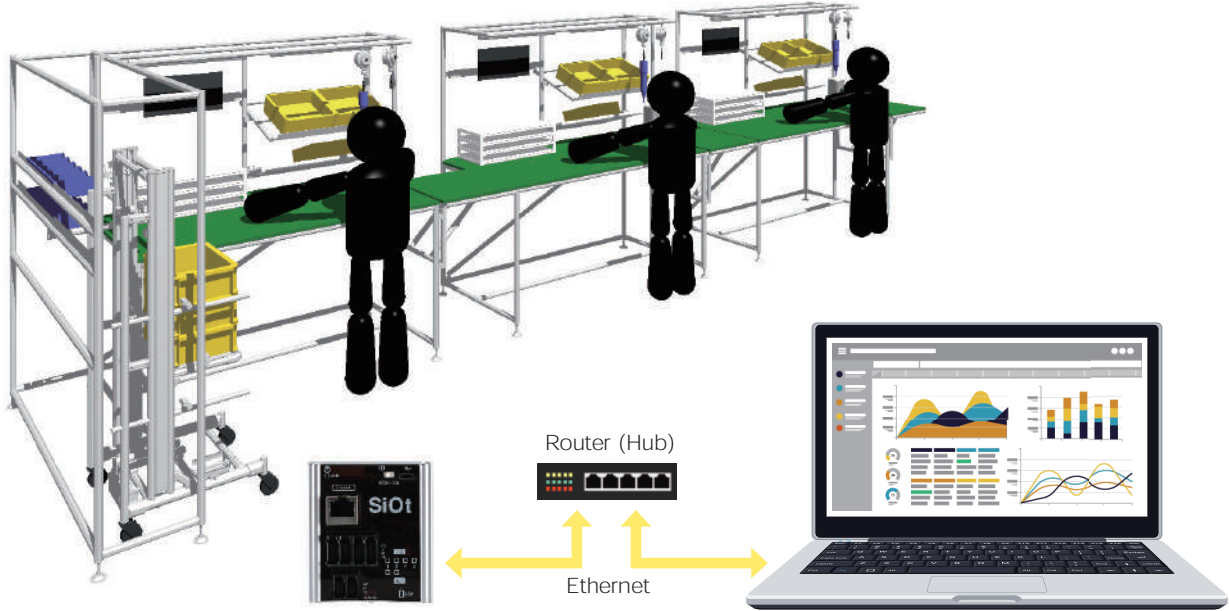


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

94 Display the graph of tact time of each process to PC.

You need

- SiOt
- LAN Cable
- PC
- Switch
- Router *Not required when connecting SiOt directly to a PC.

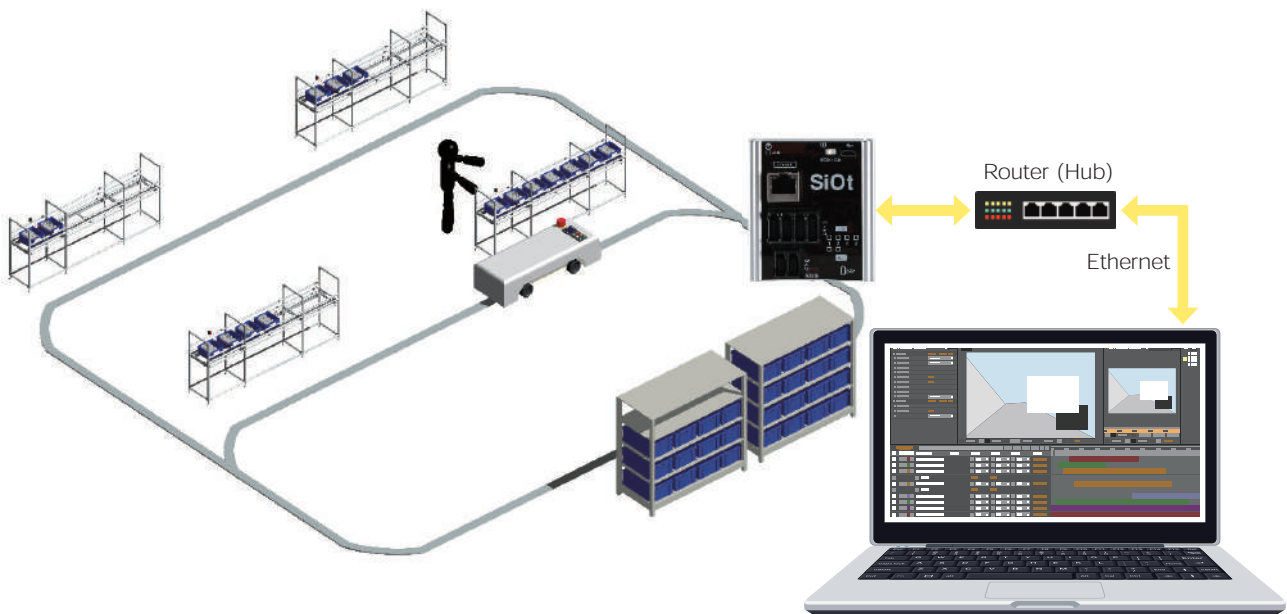


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

95 Operate the AGV only when instructed to collect parts.

You need

- SiOt
- LAN Cable
- PC
- Sensor
- Router *Not required when connecting SiOt directly to a PC.



User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

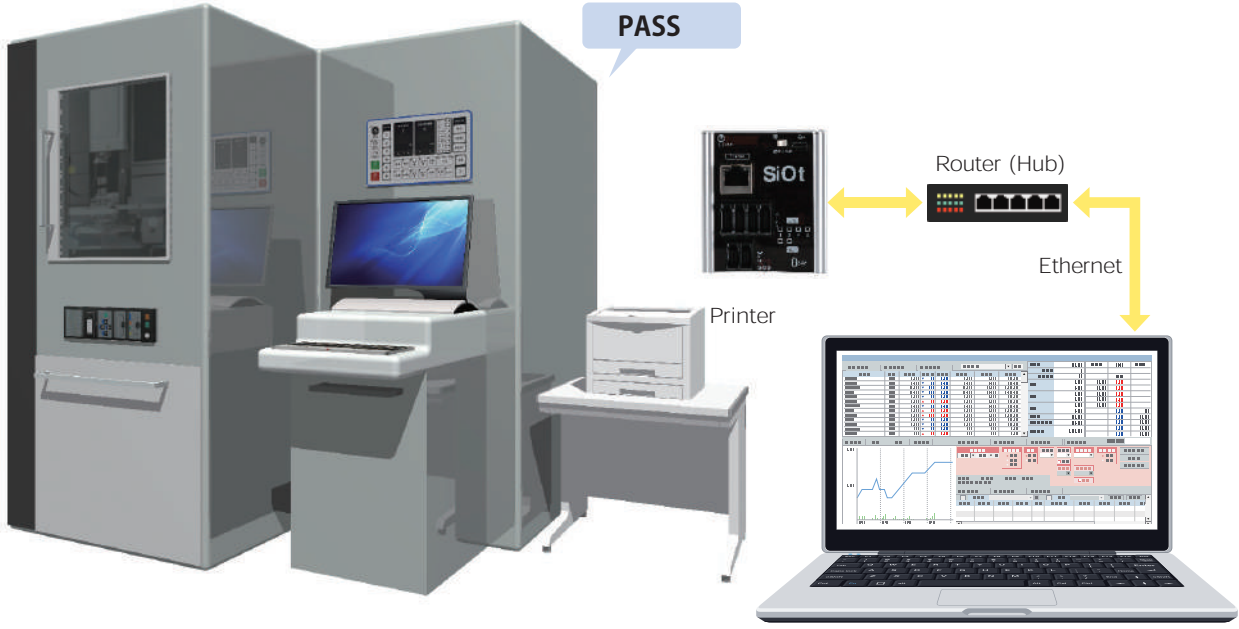
Original System

Products

Instruction

96 Print out the slip automatically when receive the test result "PASS".

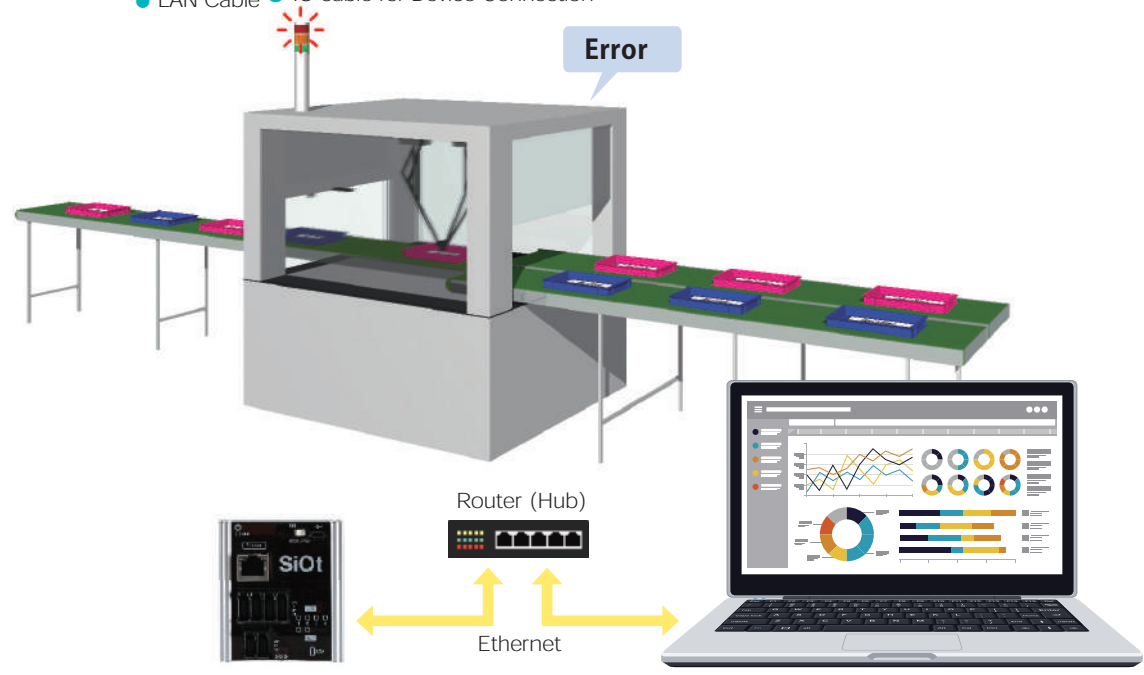
- You need**
- SiOt
 - LAN Cable
 - PC
 - Router *Not required when connecting SiOt directly to a PC.
 - IO cable for Device Connection



User can make their own software for PC. PC and SiOt network by Ethernet Command for SIO

97 Run an Excel macro on the PC when an error occurs on the device.

- You need**
- SiOt
 - LAN Cable
 - PC
 - Router *Not required when connecting SiOt directly to a PC.
 - IO cable for Device Connection

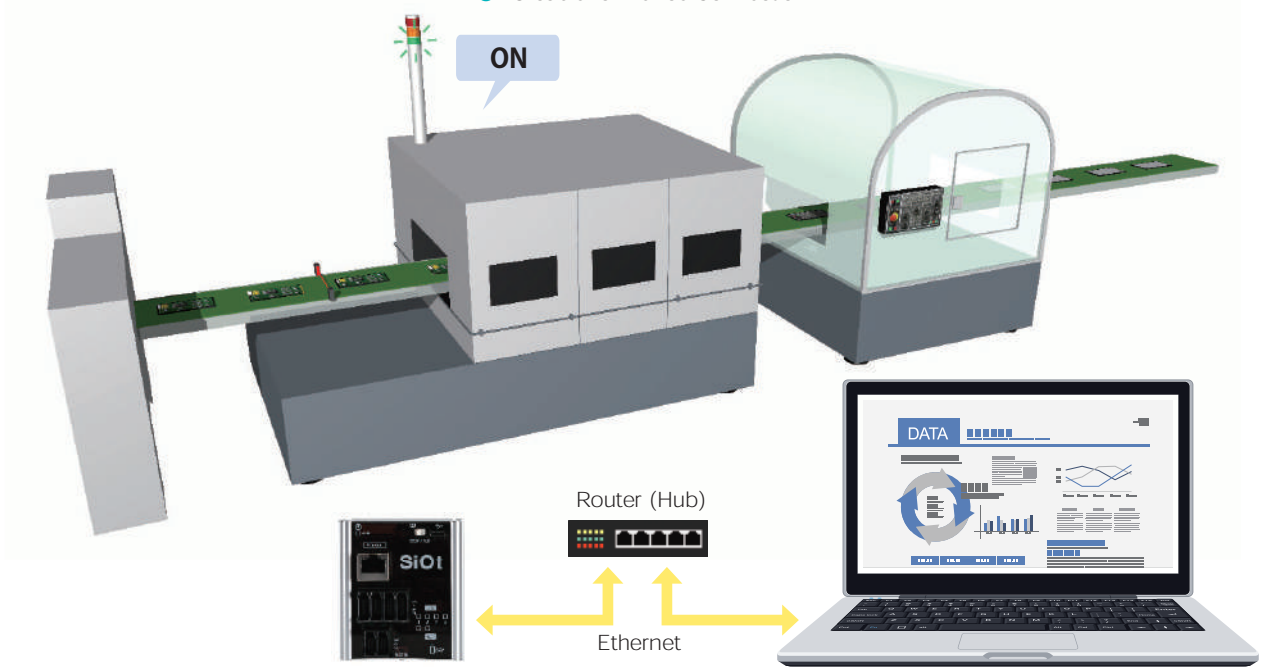


User can make their own software for PC. PC and SiOt network by Ethernet Command for SIO

98 Control the device with link to internal software.

You need

- SiOt
- LAN Cable
- PC
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection

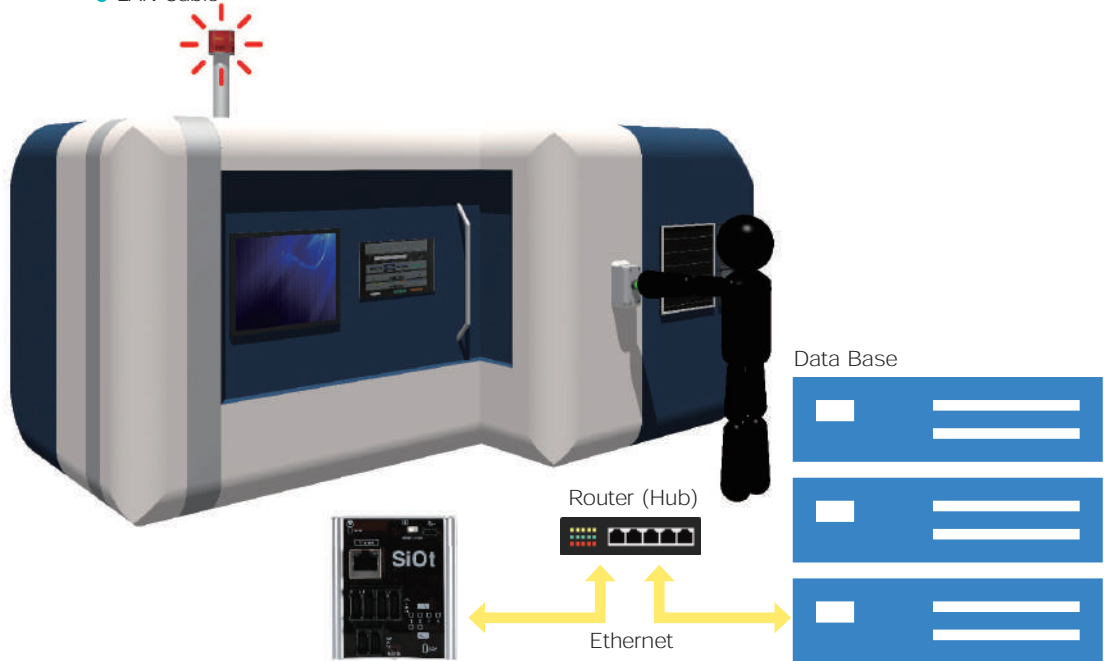


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

99 Record the state of device to Internal Database.

You need

- SiOt
- LAN Cable
- Data
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

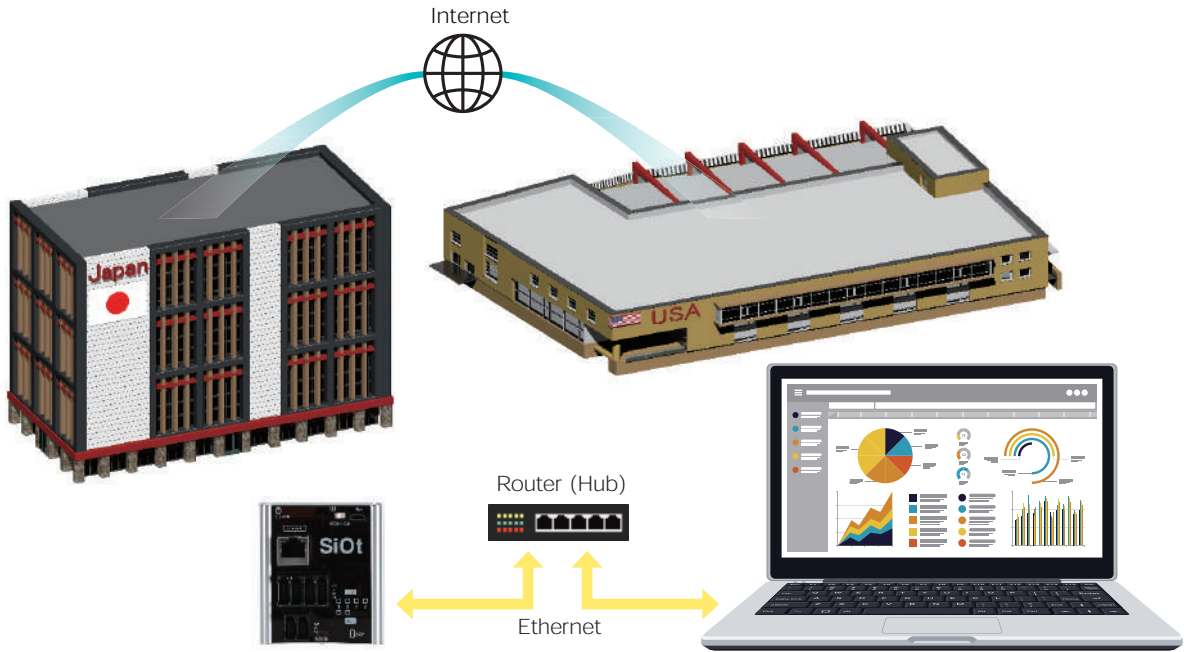
Instruction

What is SiOt

100 Monitor the status of overseas factories from headquarters.

You need

- SiOt
- LAN Cable
- PC
- Router *Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection
- Connection Service (VPN etc)



User can make their own software for PC. PC and SiOt network by Ethernet Command for SIO

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction



SiOt Products

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

SiOt



Input	Output
4	2

Size	W65mm×D36.5mm×H76mm
Item No.	XAC-061

SiOt1



Input	Output
8	8

Size	W80mm×D36.5mm×H96.4mm
Item No.	XAC-064

SiOt3



Input	Output
16	16

Size	W130mm×D32.4mm×H96.4mm
Item No.	XAC-065

SiOt3 PNP



Input	Output
16	16

Size	W130mm×D32.4mm×H96.4mm
Item No.	XAC-066

More I/O with MiO Controller!

MiO



Size	W80mm×D33mm×H81mm
Item No.	XAC-056

SiO-N1



Size	W80mm x D35mm x H81mm
Item No.	XAC-052

SiO-N3



Size	W130mm x D31mm x H81mm
Item No.	XAC-062

This is a **master controller** that controls a single motorized module as an aggregate.

Capable to connect **max. 8 unit** of SiO-N1 or N3.

- Each input/output is shared by all controllers

- # 8 can be used on condition of IN1 of #1
- # 1 can be used on condition of OUT1 of #3

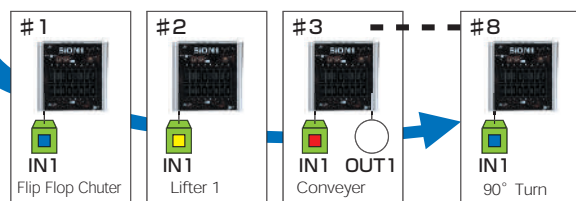
NOTE : SiO-N1 connected to MiO must be Ver. 3.10 or later, otherwise an error will occur. SiO-N1 shipped after June 1, 2019 is Ver. 3.10.



USB



SiO-Network



IoT Programmer



【Function】

- Email Sending
- Lamp
- Log output
- Counting
- Error Notice
- Buzzer
- Camera Recording
- Stopwatch
- Calendar Trigger
- Button Trigger
- Controller Linkage

Point

IoT Programmer is free to use and try!

To use IoT Programmer, please download the software from our website and install it on your PC.

<https://fa.sus.co.jp/products/sio/software/iotprogrammer/>

IoT Programmer Usage Environment

Item	Details
OS	Windows 7 (32,64Bit) / Windows 8 (32,64Bit) / Windows 8.1 (32,64Bit) / Windows 10 (32,64Bit) ※There may be cases where some models do not operate properly even with the above OS.
CPU · Memory	800 MHz or higher CPU and 512 MB or more of system memory recommended 512 MB or more of extended memory recommended
Hard Disc	At least 100MB of available space
Display	Resolution 1280 x 768 or higher
Interface	LAN Port
Others	Microsoft. NET Framework 4.6 is required for installation.

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Switch BOX 1 Switch with e-CON



Item No.	SUC-513
----------	----------------

Switch Box with 1 switch button
Cable Length : 1m

Switch BOX 1 Switch (LED Button) with e-CON



Item No.	SUC-514
----------	----------------

Switch Box with 1 switch LED button
Cable Length : 1m

Switch Box with e-CON (2 Pins)



Item No.	SUC-344
----------	----------------

Switch Box with 2 switch buttons
Cable Length : 1m

Switch BOX 2 Switches (LED Button) with e-CON



Item No.	SUC-515
----------	----------------

Switch Box with 2 switch LED buttons
Cable Length : 1m

Use Case

Email Sending

AIO EMG Switch with e-CON



Item No.	SUC-220
----------	----------------

Emergency Switch Box. The signal is NC Type and it becomes OFF when push the button.
Cable Length : 1m

EMG Switch Box (LED Button) with e-CON



Item No.	SUC-516
----------	----------------

Emergency Switch Box with LED Button. The signal is NC Type and it becomes OFF when push the button.
Cable Length : 1m

Selector Switch φ16 with e-CON



Item No.	SUC-537
----------	----------------

2 Notches Selector Switch Box of φ16.
Cable Length : 1m
Set of stickers included

Selector Switch φ22 with e-CON



Item No.	SUC-538
----------	----------------

2 Notches Selector Switch Box of φ22.
Cable Length : 1m
Set of stickers included

Visualization

Logfile Saving

Quantity Count

Human detecting Sensor with e-CON



Item No.	SUC-678
----------	----------------

When it detects human, it outputs a signal.
Cable Length : 2m
Detection range (approx.) : 3m square at 3m distance
Model :PY2-S
Maker : Sensatec

Touchless Switch with e-CON



Item No.	SUC-645
----------	----------------

It can be turned on simply by placing your hand near it without touching.
Detection Distance : MAX : 500mm
Output :Orange Light On
Standby : Green Light On /Blue Light On / Lights Off Switchable
Cable Length : 2m
Model : DHS-1
Maker : TAKENAKA ENGINEERING

Thumb Rotary Switch with e-CON



Item No.	SUC-638
----------	----------------

Convert a single-digit hexadecimal number into a 4-bit binary number.
Cable Length : 2m
Model : A7BS-254
Maker : Omron

Foot Switch with e-CON



Item No.	SUC-615
----------	----------------

This is a switch that turn on only when you step on it.
Cable Length : 1m
Model : SFVS-1
Maker : KOKUSAIDENGYO

Camera Recording

Time Count

Remote Control

Original System

Wireless Switch with e-CON



Item No.	SUC-375
----------	----------------

This is a set of Switch and Receiver with wireless and battery less.
In a non obstacle area, the signal can reach up to 100 meters.
No need to change the batteries in the switch box because it is battery less.
Model : XB5RFB01
Maker : Schneider Electric

Wireless Limit Switch with e-CON



Item No.	SUC-527
----------	----------------

This is a set of Switch and Receiver with wireless and battery less .
In a non obstacle area, the signal can reach up to 100 meters.
No need to change the batteries in the switch box because it is battery less.
Model : XCKWD31
Maker : Schneider Electric

Relay Antenna



Item No.	SUC-409
----------	----------------

Used to divert radio waves or extend the distance from wireless switches.
Model : ZBRA1
Maker : Schneider Electric
No connection to SiO Cable Length : 2.8m
Power Supply : AC100V

Time Switch with e-CON



Item No.	SUC-650
----------	----------------

Able to set the time to turn it on and off during a week.
Model : H5S-WA2D
Maker : Omron
Cable Length : 2m

Products

Instruction

Temperature Controller with e-CON



Item No. **SUC-473**

It outputs a signal when the temperature reaches the set point.
 Model: E5CC-RX0DSM-000
 Maker: Omron
 Cable Length : 0.3m
 ※Thermocouples are not included.

Photoelectric Sensor (PZ-G51N) with GF-S Angle bracket



Item No. **SUC-562**

Cable Length : 2m
 Detection Distance : 20m
 Model : PZ-G51N
 Maker : Keyence
 SUS Sensor Bracket Angle Type (GF-S Grip) included.

Photoelectric Sensor with GF-S Flat Type Bracket



Item No. **SUC-563**

Cable Length : 2m
 Detection Distance : 20m
 Model : PZ-G51N
 Maker : Keyence
 SUS Sensor Bracket Flat Model (GF-S Grip) included.

Photo electric Sensor with e-CON(PZ-G51N)



Item No. **SUC-277**

Cable Length : 2m
 Detection Distance : 20m
 Model : PZ-G51N
 Maker : Keyence

Photoelectric Sensor (E3T-FT12) with e-CON



Item No. **SUC-393**

Cable Length : 2m
 Detection Distance : 0.5m
 Model : E3T-FT12 2M
 Maker : Omron

Photoelectric Sensor (Transmission Type) with e-CON



Item No. **SUC-196**

Cable Length : 2m
 Detection Distance : 0.6m
 Model : PR-F51N3
 Maker : Keyence

Photoelectric Sensor (E3Z-T61)with e-CON



Item No. **SUC-394**

Cable Length : 2m
 Detection Distance : 15m
 Model : E3Z-T61 2M
 Maker : Omron

Photoelectric Sensor (CX-412)with e-CON



Item No. **SUC-557**

Cable Length : 2m
 Detection Distance : 15m
 Model : CX-412
 Maker : Panasonic Devices SUNX

Heavy-duty Photoelectric Sensor with e-CON



Item No. **SUC-670**

Cable Length : 2m
 Detection Distance : 20m
 Model : PX-H71G (Sensor Head)
 PX-10 (Amplifier Unit)
 Maker : Keyence
 Water and Oil Proof type

Photoelectric Sensor (Reflective Type) With GF-S Angle Bracket



Item No. **SUC-560**

Cable Length : 2m
 Detection Distance : 0.1m
 Model : PZ-M11
 Maker : Keyence
 SUS Sensor Bracket Angle Type (GF-S Grip)

Photoelectric Sensor (Reflective Type) with GF-S Flat Bracket



Item No. **SUC-561**

Cable Length : 2m
 Detection Distance : 0.1m
 Model : PZ-M11
 Maker : Keyence
 SUS Sensor Bracket Flat Type (GF-S Grip)

Photoelectric Sensor (Reflective Type) with e-CON



Item No. **SUC-195**

Cable Length : 2m
 Detection Distance : 0.1m
 Model : PZ-M11
 Maker : Keyence

Photoelectric Sensor (E3Z-LS61) with e-CON



Item No. **SUC-392**

Cable Length : 2m
 Detection Distance : 0.2m
 Model : E3Z-LS61 2M
 Maker : Omron

Photoelectric Sensor (CX-424) with e-CON



Item No. **SUC-556**

Cable Length : 2m
 Detection Distance : 0.1m
 Model : CX-424
 Maker : Panasonic Devices SUNX

Photoelectric Sensor (Regression Reflective Type) with GF-S Angle Bracket



Item No. **SUC-564**

Cable Length : 2m
 Detection Distance : 4.2m
 Model : PZ-G61N
 Maker : Keyence
 SUS Sensor Bracket Angle Type (GF-S Grip)

Photoelectric Sensor (Regression Reflective Type) with GF-S Flat Bracket



Item No. **SUC-565**

Cable Length : 2m
 Detection Distance : 4.2m
 Model : PZ-G61N
 Maker : Keyence
 SUS Sensor Bracket Flat Type (GF-S Grip)

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

Photoelectric Sensor (PZ-G61N) with e-CON



Item No. **SUC-550**

Cable Length : 2m
 Detection Distance : 4.2m
 Model : PZ-G61N
 Maker : Keyence

Photoelectric Sensor (E3Z-R61) with e-CON



Item No. **SUC-553**

Cable Length : 2m
 Detection Distance : 3.5m
 Model : E3Z-R61
 Maker : Omron

Photoelectric Sensor (CX-493) with e-CON



Item No. **SUC-558**

Cable Length : 2m
 Detection Distance : 5m
 Model : CX-493
 Maker : Panasonic Devices SUNX

Color Sensor with e-CON



Item No. **SUC-643**

Cable Length : 2m
 Detection Distance : 10mm
 Model : LX-101
 Maker : Panasonic Devices SUNX

Proximity Sensor with e-CON



Item No. **SUC-194**

Cable Length : 2m
 Detection Distance : 5mm
 Model : EZ-18T
 Maker : Keyence

Proximity Sensor (TW-W5MC1) with e-CON



Item No. **SUC-391**

Cable Length : 2m
 Detection Distance : 5mm
 Model : TL-W5MC1 2M
 Maker : Omron

Proximity Sensor M8 (E2E-X2ME1) 2M with e-CON



Item No. **SUC-485**

Cable Length : 2m
 Detection Distance : 2mm
 Model : E2E-X2ME1 2M
 Maker : Omron

Proximity Sensor M12 (E2E-X5ME1) 2M with e-CON



Item No. **SUC-486**

Cable Length : 2m
 Detection Distance : 5mm
 Model : E2E-X5ME1 2M
 Maker : Omron

Ultrasonic Sensor with e-CON



Item No. **SUC-666**

Cable Length : 2m
 Detection Distance : 150-700mm
 Model : FW-H07 (Sensor Head)
 FW-V20 (Digital Amplifier)
 Maker : Keyence

Auto Switch with e-CON (D-A93L)



Item No. **SUC-316**

Cable Length : 3m
 Model : D-A93L
 Maker : SMC

Picking Sensor (70mm) with e-CON



Item No. **SUC-540**

Small sensor mainly used for picking operations.
 Cable Length : 2m
 Detection Distance : 0.3m
 Model : NA1-PK3
 Maker : Panasonic Devices SUNX

Picking Sensor (NA1 Bracket) with e-CON



Item No. **SUC-525**

Small picking sensor mainly used for picking operations.
 Cable Length : 2m
 Detection Distance : 1.2m
 Model : NA1-PK5
 Maker : Panasonic Devices SUNX

Picking Sensor (NA2 bracket) with e-CON



Item No. **SUC-530**

Small Sensor mainly used for picking operations.
 Cable Length : 2m
 Detection Distance : 1.2m
 Model : NA1-PK5
 Maker : Panasonic Devices SUNX

Flexible Rod Switch A with e-CON



Item No. **SUC-200**

Cable Length : 2m
 Model : TP70-1A1
 Maker : Omron

Flexible Rod Switch B with e-CON



Item No. **SUC-201**

Cable Length : 2m
 Model : HL-5300
 Maker : Omron

Limit Switch with e-CON



Item No. **SUC-193**

Cable Length : 2m
 Model : D4MC-2000
 Maker : Omron

Limit Switch with e-CON (Non Roller)



Item No.	SUC-341
----------	---------

Cable Length : 2m
 Model : D4MC-1000
 Maker : Omron

I/O Catcher with e-CON



Item No.	SUC-696
----------	---------

It is a sensor that can output ON/OFF status by clamping I/O signal of the devices.
 Cable Length : 1.9m
 Model : SE-CS001A
 Maker : INABA DENKI SANGYO

Input Cable for Power Unit with e-CON (2m)



Item No.	SUC-192
----------	---------

By connecting to power unit, it detects the forward and backward ends.
 Cable Length : 2m

Input Cable for Power Unit (with Brake), Electric Stopper, Electric Winch with e-CON



Item No.	SUC-198
----------	---------

By connecting to electric devices, it detects the forward and backward ends.
 Cable Length : 2m

Voltage meter with e-CON



Item No.	SUC-674
----------	---------

It measures the power supply voltage of the SiO controller and outputs a signal if it exceeds the set range. It is ideal for monitoring the power supply voltage during battery operation.
 Cable Length : 1m
 Model : K3HB-XVD-C1
 Maker : Omron

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

Total Counter with e-CON



Item No. **SUC-378**
Display the signal count from SiO.
Cable Length : 2m
Model : H7EC-N
Maker : Omron

Time counter with e-CON (Hours display)



Item No. **SUC-636**
The signal from SiO is displayed in total. 0.0h~999999.9h/ 0.0h~3999d23.9h (Switchable)
Cable Length : 2m
Model : H7ET-N
Maker : Omron

Time counter with e-CON (Hours, Minutes and Seconds display)



Item No. **SUC-637**
The signal from SiO is displayed in total. 0s~999h59min59s/ 0.0min~9999h59.9min (Switchable)
Cable Length : 2m
Model : H7ET-N1
Maker : Omron

Electronic Counter with e-CON



Item No. **SUC-470**
The signal from SiO is used to display addition and subtraction. The signal is output when the set value is reached.
Cable Length : 0.3m
Model : H7CX-A11SD1-N
Maker : Omron

Choco Tei Watcher with e-CON (Short time break down watcher)



Item No. **SUC-698**
Triggered recording enables to go back in time before a problem occurs. The LCD screen allows for simple playback on the spot.
Cable Length : 2m
Model : IB-ECT002
Maker : INABA DENKI SANGYO

Voice Player with e-CON



Item No. **SUC-280**
4 patterns of audio data (MP3) can be played.
Cable Length : 3m
Model : BSV-24N-D
Maker : PATLITE

Loud Alarm with e-CON



Item No. **SUC-605**
High volume of up to 110dB. Can make 15 types of sounds.
Cable Length : 5m
Model : EHS-M1TA
Maker : PATLITE

Relay 1C with e-CON



Item No. **SUC-315**
Relay with 1c- contact.
Model : G2R-1-SND
Maker : Omron
7.5A 250V AC (Inductive load) 5A 30V DC (Inductive load) Operation indicator light / With surge absorbing diode

Relay 1a x 4



Item No. **SUC-339**
4 built-in relays with 1a-contacts.
Model : PCRY-4M1N
Maker : TOYOGIKEN
5A 250V AC (Inductive load) 5A 30V DC (Inductive load)
Operation indicator light / With surge absorbing diode

7 Color LED Signal Light with e-CON



Item No. **SUC-689**
7 color LED lamp by the combination of the 3 output signals.
Cable Length : 3m
Model : Q22Y5SZRGB24E-CA
Maker : IDEC

Multi-Color lamp with e-CON



Item No. **SUC-613**
7 color LED lamp by the combination of the 3 output signals.
Cable Length : 2m
Model : NE-M1ANN-M
Maker : PATLITE

Multi-Color Lamp, Buzzer with e-CON



Item No. **SUC-614**
7 color LED lamp by the combination of the 3 output signals. With buzzer (88dB)
Cable Length : 2m
Model : NE-M1ANB-M
Maker : PATLITE

Lamp 5 Colors (Red/Yellow/Green/Blue/White)



Item No. **SUC-533**
5 Colors Lamp of $\phi 40$
Cable Length : 1m
Model : LOU-24-5RYGBW
Maker : Schneider Electric
*The color sequence can be rearranged by the customer.

Lamp 3 Colors (Red/Yellow/Green) with buzzer



Item No. **SUC-425**
3 Colors Lamp $\phi 40$ with Buzzer.
Cable Length : 1m
Model : LOU-24-3RYG
Maker : Schneider Electric
*The color sequence can be rearranged by the customer.

Lamp 3 Colors (Red/Yellow/Green)



Item No. **SUC-317**
3 Colors Lamp $\phi 40$ Cable Length : 1m
Model : LOU-24-3RYG
Maker : Schneider Electric
*The color sequence can be rearranged by the customer.

Lamp with e-CON (Blue)



Item No. **SUC-288**
Lamp $\phi 40$ Blue
Cable Length : 1m
Model : LOU-24-1B
Maker : Schneider Electric

Lamp with e-CON (Yellow)



Item No. **SUC-289**
Lamp $\phi 40$ Yellow
Cable Length : 1m
Model : LOU-24-1Y
Maker : Schneider Electric

Lamp with e-CON (Green)



Item No. **SUC-290**
Lamp $\phi 40$ Green
Cable Length : 1m
Model : LOU-24-1G
Maker : Schneider Electric

Lamp with e-CON (Red)



Item No. **SUC-199**
Lamp $\phi 40$ Red
Cable Length : 1m
Model : LOU-24-1R
Maker : Schneider Electric

Lamp 5 Colors $\phi 25$ (Red/Yellow/Green/Blue/White)



Item No. **SUC-534**
5 Colors Lamp $\phi 25$
Cable Length 0.4m
Model : MES-502A-RYGB
Maker : PATLITE
*The color sequence can be rearranged by the customer.

Output Device (SiOt → Equipment)

Lamp 3 Colors φ25 (Red/Yellow/Green)



Item No. **SUC-437**

3 Colors Lamp φ25
Cable Length : 0.4m
Model : MES-302A-RYG
Maker : PATLITE
*The color sequence can be rearranged by the customer.

Lamp with e-CON φ25 (Blue)



Item No. **SUC-436**

Lamp φ25 Blue
Cable Length : 0.4m
Model : MES-102A-B
Maker : PATLITE

Lamp with e-CON φ25 (Yellow)



Item No. **SUC-435**

Lamp φ25 Yellow
Cable Length : 0.4m
Model : MES-102A-Y
Maker : PATLITE

Lamp with e-CON φ25 (Green)



Item No. **SUC-433**

Lamp φ25 Green
Cable Length : 0.4m
Model : MES-102A-G
Maker : PATLITE

Lamp with e-CON φ25 (Red)



Item No. **SUC-434**

Lamp φ25 Red
Cable Length : 0.4m
Model : MES-102A-R
Maker : PATLITE

Rotating Warning Lamp (e-CON) Red LRSC



Item No. **SUC-545**

Rotating Warning Lamp φ106 Red
Cable Length : 5m
Model : LRSC-24R-A
Maker : Schneider Electric

Rotating Warning Lamp (e-CON) Green LRSC



Item No. **SUC-546**

Rotating Warning Lamp φ106 Green
Cable Length : 5m
Model : LRSC-24G-A
Maker : Schneider Electric

Rotating Warning Lamp (e-CON) Blue LRSC



Item No. **SUC-547**

Rotating Warning Lamp φ106 Blue
Cable Length : 5m
Model : LRSC-24B-A
Maker : Schneider Electric

Rotating Warning Lamp (e-CON) Yellow LRSC



Item No. **SUC-548**

Rotating Warning Lamp φ106 Yellow
Cable Length : 5m
Model : LRSC-24Y-A
Maker : Schneider Electric

Buzzer with e-CON



Item No. **SUC-206**

Sound Pressure(at 1m) : 75dB
Continuous sound only
Cable Length : 1m
Model : UZ6-12
Maker : IDEC

Single Solenoid Valve with e-CON



Item No. **SUC-510**

A set of solenoid valve (single solenoid) and Cable.
①Solenoid Valve Maker : SMC
SY-3120-5MOZ-C6×1
②SMC Solenoid Valve Cable
SUC-202×1

Double Solenoid Valve with e-CON



Item No. **SUC-511**

A set of solenoid valve (double solenoid) and Cable x2.
①Solenoid Valve Maker : SMC
SY-3220-5MOZ-C6×1
②SMC Solenoid Valve Cable
SUC-202×2

Solenoid Valve Cable with e-CON (Cable only)



Item No. **SUC-202**

SMC SY series Cable for solenoid valve control.
Use for solenoid valves with power consumption of 2.4W or less. Cable Length : 1m
*Solenoid valve is not included.

Output Cable for Power Unit, Electric Winch, GF Conveyor with e-CON(2m)



Item No. **SUC-191**

By connecting to electric devices, it outputs the forward and backward ends.
Cable Length : 2m

Output Cable for Electric Stopper with e-CON



Item No. **SUC-197**

By connecting to electric devices, it outputs the forward and backward ends.
Cable Length : 2m

Output Cable for i Conveyor with e-CON



Item No. **SUC-487**

Outputs an operation command to the i-conveyor.
Cable Length : 2m

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

What is SiOt

Input Connector (4 Pins) 5 pcs/pack



Pin Assignments

1	24V
2	-
3	0V
4	IN

Item No.	Wire Mount Plug 4 - Pin Description	Applicable Wire Chart			Body Color	Cover Color
		AWG No.	Nominal cross section (mm ²)	Finished Outer Diameter (φ mm)		
SUC-319	37104-4080-G00FL	26-28	less than 0.08-0.14	0.6-0.8	Gray	Purple
SUC-320	37104-4101-G00FL			0.8-1.0		Red
SUC-321	37104-3080-000FL	24-26	less than 0.14-0.3	0.6-0.8	Black	Purple
SUC-322	37104-3101-000FL			0.8-1.0		Red
SUC-323	37104-3122-000FL			1.0-1.2		Yellow
SUC-324	37104-3163-000FL			1.2-1.6		Orange
SUC-325	37104-2124-000FL	20-22	0.3-0.5	1.0-1.2	Black	Green
SUC-326	37104-2165-000FL			1.2-1.6		Blue
SUC-327	37104-2206-000FL			1.6-2.0		Gray

Use Case

Email Sending

Visualization

Output Connector (3 Pins) 5 pcs/pack



Pin Assignments

1	24V
2	0V
3	OUT

Item No.	Wire Mount Plug 3 - Pin Description	Applicable Wire Chart			Body Color	Cover Color
		AWG No.	Nominal cross section (mm ²)	Finished Outer Diameter (φ mm)		
SUC-328	37103-4080-G00FL	26-28	less than 0.08-0.14	0.6-0.8	Gray	Purple
SUC-329	37103-4101-G00FL			0.8-1.0		Red
SUC-330	37103-3080-000FL	24-26	less than 0.14-0.3	0.6-0.8	Black	Purple
SUC-331	37103-3101-000FL			0.8-1.0		Red
SUC-332	37103-3122-000FL			1.0-1.2		Yellow
SUC-333	37103-3163-000FL			1.2-1.6		Orange
SUC-334	37103-2124-000FL	20-22	0.3-0.5	1.0-1.2	Black	Green
SUC-335	37103-2165-000FL			1.2-1.6		Blue
SUC-336	37103-2206-000FL			1.6-2.0		Gray

Logfile Saving

Quantity Count

Camera Recording

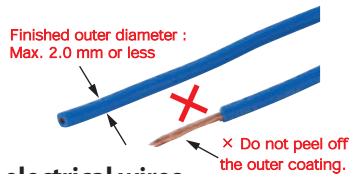
Time Count

e-CON Wiring Procedure

1 : Applicable wires

The maximum wire size that can be used for e-CON is 2.0 mm in finished outer diameter. Please select the appropriate size from among the 9 types according to the cross section of the conductor and the finished outer diameter.

※If the wire is not compatible, use the connector with cable, SUC-286 or SUC-287.



4 : Crimp the connector

Use a tool (pliers, etc.) to push the cover into the body.

※Set the tool from the side of the connector as shown in the right picture.

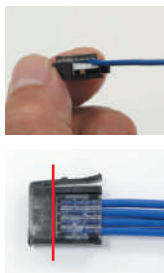


2 : Pre-treatment of electrical wires

Do not use the wires with the insulation removed. It may cause a short circuit with the neighboring terminals, resulting in damage to the controller.

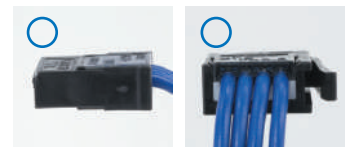
3 : Insert the electric wire

- 1) Check the pin number and insert the wire through the wire insertion hole between the Top Cover (translucent product) and the Base Cover (white color part).
- 2) Make sure that the wire is inserted from the top of the Top Cover to the back (the Red line in the photo).



5 : Check

Make sure that the cover is horizontal to the body and that there is no space between the body and the cover from the side and back of the connector.



Bad example(1)
Insufficient cover push in.



Bad example(2)
Not latched

Push the red arrow part in again.

Products

Instruction



for SiOt

SiOt Starter Kit



Item No.	SIO-L21
----------	---------

Details

- ① SiOt [XAC-061]
- ② AC Adapter [SUC-261]
- ③ Software CD
- ④ USB Cable [SUC-121]

For your first time use, we provide everything you need: software, USB cable, AC adapter. This product is ready to use as soon as you receive it.

SiOt Basic Kit



Item No.	SIO-L22/SIO-L30
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Details

- SIO-L22
- ① SiOt [XAC-061]
- ② AC Adapter [SUC-261]
- SIO-L30
- ① SiOt [XAC-061]
- ② AC Adapter L-Shaped Socket [SUC-446]

This kit includes a power supply AC100V (AC adapter used).



for SiOt1

SiOt1 Starter Kit



Item No.	SIO-L34
----------	---------

Details

- ① SiOt1 [XAC-064]
- ② AC Adapter [SUC-261]
- ③ Software CD
- ④ USB Cable [SUC-121]

For your first time use, we provide everything you need: software, USB cable, AC adapter. This product is ready to use as soon as you receive it.

SiOt1 Basic Kit



Item No.	SIO-L32/SIO-L33
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Details

- SIO-L32
- ① SiOt1 [XAC-064]
- ② AC Adapter [SUC-261]
- SIO-L33
- ① SiOt1 [XAC-064]
- ② AC Adapter L-Shaped Socket [SUC-446]

This kit includes a power supply AC100V (AC adapter used).



for SiOt3

SiOt3 Starter Kit



Item No.	SIO-L37
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Details

- ① SiOt3 [XAC-065]
- ② AC Adapter [SUC-261]
- ③ Software CD
- ④ USB Cable [SUC-121]

For your first time use, we provide everything you need: software, USB cable, AC adapter. This product is ready to use as soon as you receive it.

SiOt3 Basic Kit 1



Item No.	SIO-L35/SIO-L36
----------	-----------------

Details

- SIO-L35
- ① SiOt3 [XAC-065]
- ② AC Adapter [SUC-261]
- SIO-L36
- ① SiOt3 [XAC-065]
- ② AC Adapter L-Shaped Socket [SUC-446]

This kit includes a power supply AC100V (AC adapter used).

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products

Instruction

- What is SiOt
- Use Case
- Email Sending
- Visualization
- Logfile Saving
- Quantity Count
- Camera Recording
- Time Count
- Remote Control
- Original System
- Products
- Instruction

Specification

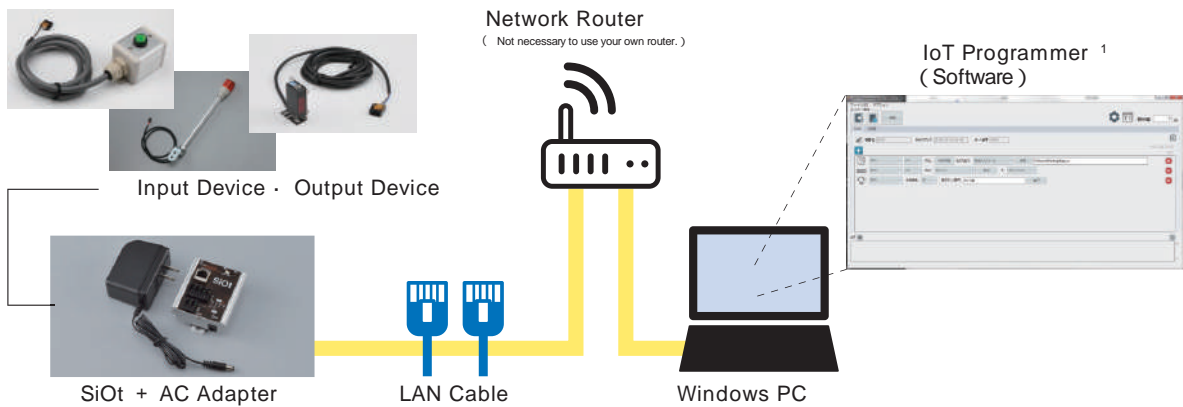
Model	SiOt	SiOt1	SiOt3	SiOt3 PNP
Power supply voltage/capacity ※1	DC24V±10% under 0.3A DC Plug 5.5mm×2.1mm			
I/O Pins	Input : 4 Output : 2	Input : 8 Output : 8	Input : 16 Output : 16	Input : 16 Output : 16
Input System	DC24V±10% 7mA/DC24V No-voltage contact input Non-isolated			
	Input response time : about15msec			
Output System	NPN		PNP	
	DC24V±10% 100mA/DC24V Open collector output Non-isolated			
	Output response time : OFF→ON、ON→OFF : less than 1 msec			
Connection Specifications	USB2.0 conformity Connector : Micro-B Type			
Conformity Standards	CE			
Condition	Temperature : 0~40℃ Humidity35~85%RH No moisture condensation. indoor location, out of direct sunlight			
Operation Condition	No corrosive gas, oil mist, flammable gas, or dust			
Vibration Resistance	IEC60068-2-6 conformity 5~8.4Hz half amplitude 3.5mm 8.4~150Hz acceleration9.8m/s ² 10 sweeps in x, y, z directions (1 octave/min)			
Impact Resistance	IEC60068-2-27 conformity 147m/s ² 3 times in each direction of X, Y and Z			
Size (mm)	W65×D36.5×H76	W80×D36.5×H96.4	W130×D32.4×H96.4	W130×D32.4×H96.4
Weight	100g	150g	214g	214g

※1 Power supply capacity is for single controller.

Input / Output

	SiOt/SiOt1/SiOt3	SiOt3 PNP	Cautions
Input Circuit			<ul style="list-style-type: none"> · If an external non-contact circuit is connected, the leakage current per point should be 1mA or less when the switch is OFF. · When using mechanical contacts (relays, switches, etc.), consider the operating life based on cycle time and other factors. Also, use low-current type contact points.
Output Circuit			<ul style="list-style-type: none"> · The internal circuit of this output device will be damaged if the load is shorted or if over rated current flows through the device. · Make sure to check the load current before connecting an relay or other inductive load. Also, be sure to connect a diode for absorbing back EMF to the coil. · The total load current is up to 1 A for SiOt3 (SiO3), 0.8 A for SiOt1, and 0.2 A for SiOt.

Preparation and connection image



※1 IoT Programmer can be downloaded free of charge from (<https://fa.sus.co.jp/products/sio/software/iotprogrammer/>)

Step 1

DfYdUfUjcb

1. Check that all necessary items are ready.
2. Connect devices as in the above connection image.
※If you do not use a router (direct connection between SiOt and PC), the IP addresses of SiOt and PC must be set manually.
3. Turn on all power.

Step 2

8 Yj]W'F Y[]gkfUjcb

4. Start the IoT Programmer.
5. Search for and add a controller.
※If your search does not find a match, you can set and add an IP address manually.

Step 3

5 XX': i bWjcb

6. Add a Function to be processed by the PC at the "+" button.
7. Set up each Function.

Step 4

GHJfhcZWtbbYWjcb

8. Press the "Connect" button to start the connection.
9. If the connection is successful, mark is displayed as shown. will be displayed if the connection is not made.
10. When the signal set in Function is turned ON, the Function is activated.

What is SiOt

Use Case

Email Sending

Visualization

Logfile Saving

Quantity Count

Camera Recording

Time Count

Remote Control

Original System

Products




Instruction

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- Products
- Instruction

How to use without IoT Programmer

Step 1
Step 2
Step 3

Preparation

1. Check that all necessary items are ready. 
2. Connect devices as on the previous page connection image. 
3. Turn on all power. 

Communication Set Up

4. Requests a connection to SiOt through Ethernet (socket communication).
5. You will receive a reply from SiOt that the connection is complete.

Communication start

6. Send commands to SiOt through Ethernet (socket communication).
(For commands, please refer to the instruction manual at the following URL.)
【Ethernet communication instruction manual】 https://fa.sus.co.jp/products/sio/software/sio_manual/
7. SiOt will reply to your command.

When SiOt and PC cannot communicate

1. Make sure SiOt and all power is turned on.
2. Check that all LAN cables are properly connected. Also, check if another LAN cable can be connected as well, in case of the cable breaking.
3. Check that SiOt's IP address is assigned correctly.
【In case the IP address of SiOt is set automatically】
 - Check that the SiOt is properly connected to the router.
 - Make sure that the SiOt is connected within the number of routers and DHCP servers that are available for connection.**【In case the IP address of SiOt is set manually】**
 - Check that the network of IP addresses set in SiOt and the network of the connected router are match.
*If the IP address of the router is "192.168.0.1", the IP address of SiOt should be set between "192.168.0.2 - 192.168.0.254".
 - Check to see if there are any devices assigned the same IP address set in SiOt.
4. Check that the network adapter of the PC communicating with the SiOt is active.
Check that the LAN cable is connected to the correct point for multiple network adapters.
5. Check that the IP address is set correctly on the network adapter of the computer.
【In case the IP address of the computer is set automatically】
 - Check that the computer is properly connected to the router.
 - Make sure that the computer is connected within the number of routers and DHCP servers that are available for connection.**【In case the IP address of the computer is set manually】**
 - Check that the network of IP addresses set in the computer and the network of the connected router are match.
*If the IP address of the router is "192.168.0.1", the IP address of the computer should be set between "192.168.0.2 - 192.168.0.254".
 - Check to see if there are any devices assigned the same IP address set in the computer.
6. Check if the port No. set in SiOt and the port No. set in IoT Programmer match.
7. Check that SiOt is not in communication with another PC or other terminal.
8. Restart the SiOt and check the communication again.

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zation

Logfile
Saving

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Count

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Recording

Time
Count

Remote
Control

Original
System

Products

Instruction

Please refer to the website for wiring diagrams, external views, specifications, etc. →<http://fa.sus.co.jp>

The information in this catalog is subject to change without notice due to product improvement or other reasons.

