SUS

SiOt




ALM
Ethernet
STOP / RUN
SiOt
24V
0V
IN
IN
1
2
3
4
24V
0V
OUT
OUT
SUS
24V

SiOt

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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



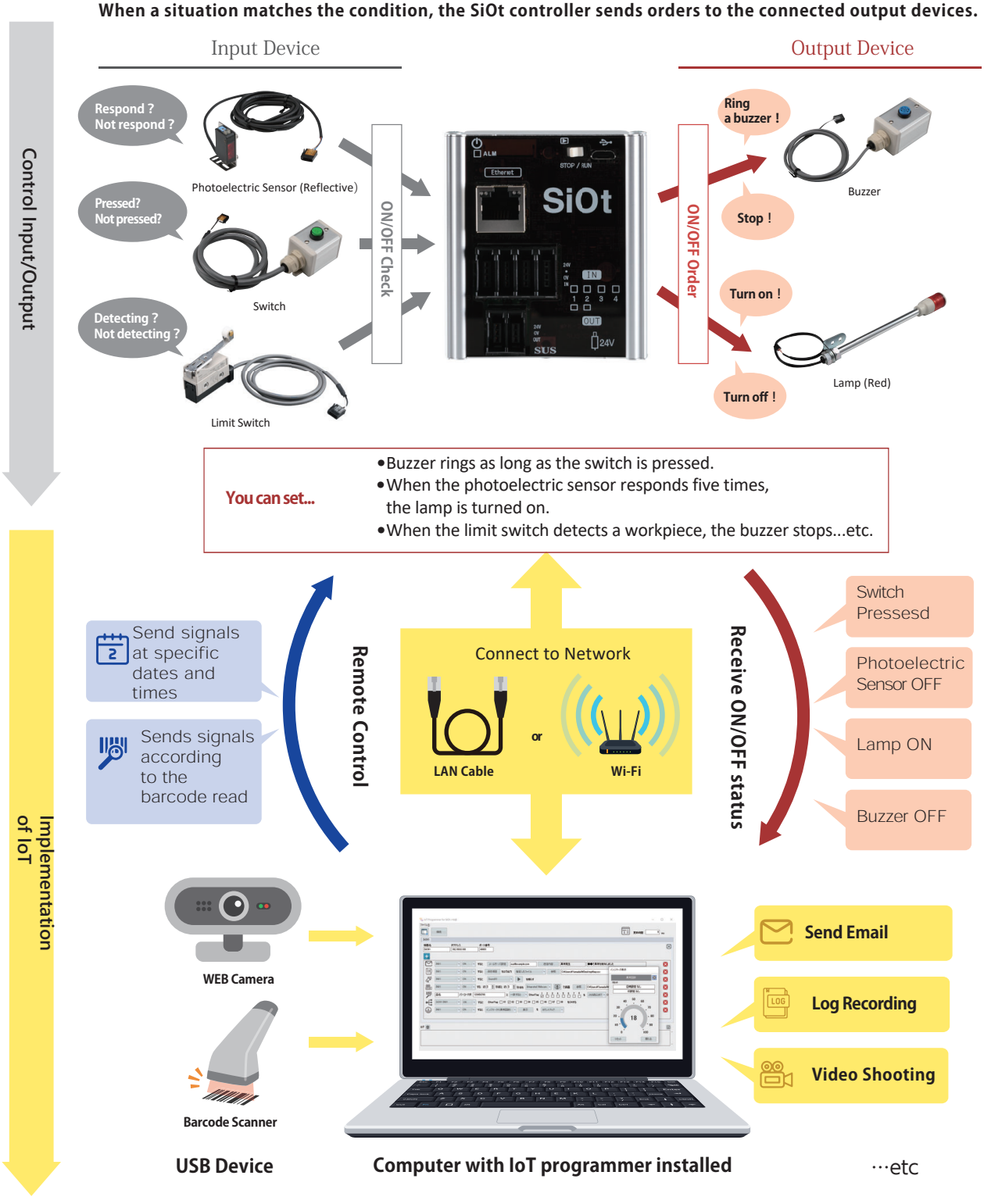
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What you can do with SioT

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.



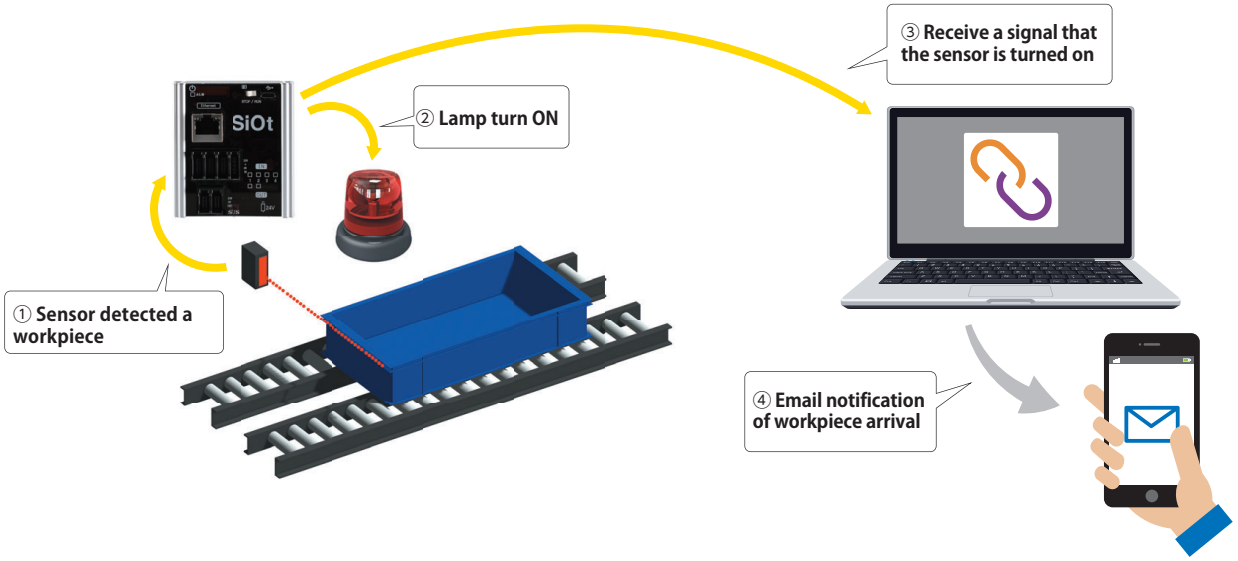
Function 2

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.

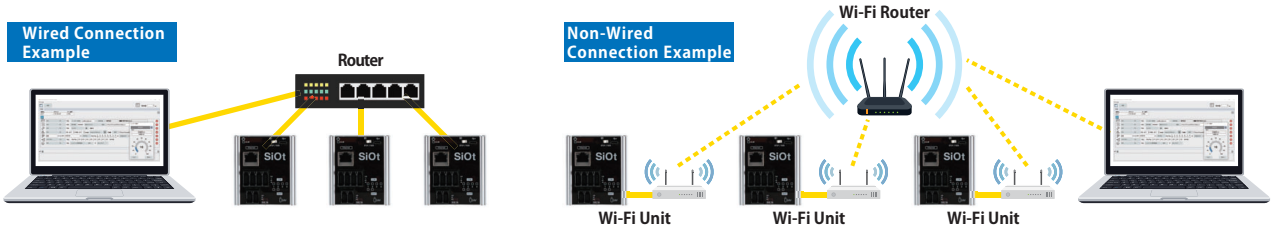
Image of SiOt Application

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

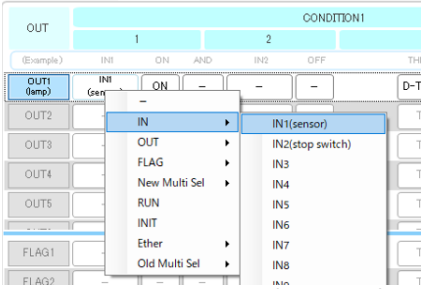
The SiOt can be connected to a PC by a cable to the Ethernet connector on the front of the SiOt. The SiOt can be connected to a PC directly, to an internal network through a router (hub), or wirelessly through a Wi-Fi device.



Easy I/O control by SiO Controller

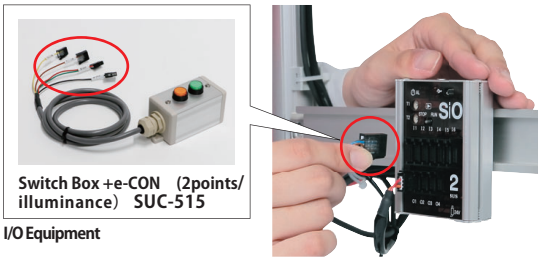
The SiO controller is a popular item from SUS that enables even those without expertise in control to realize improvements through simplified motorization, with simple programming using original software for the controller and one-touch connection using a built-in standard e-CON .
Its features remain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



Switch Box +e-CON (2points/ illuminance) SUC-515

I/O Equipment

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



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/

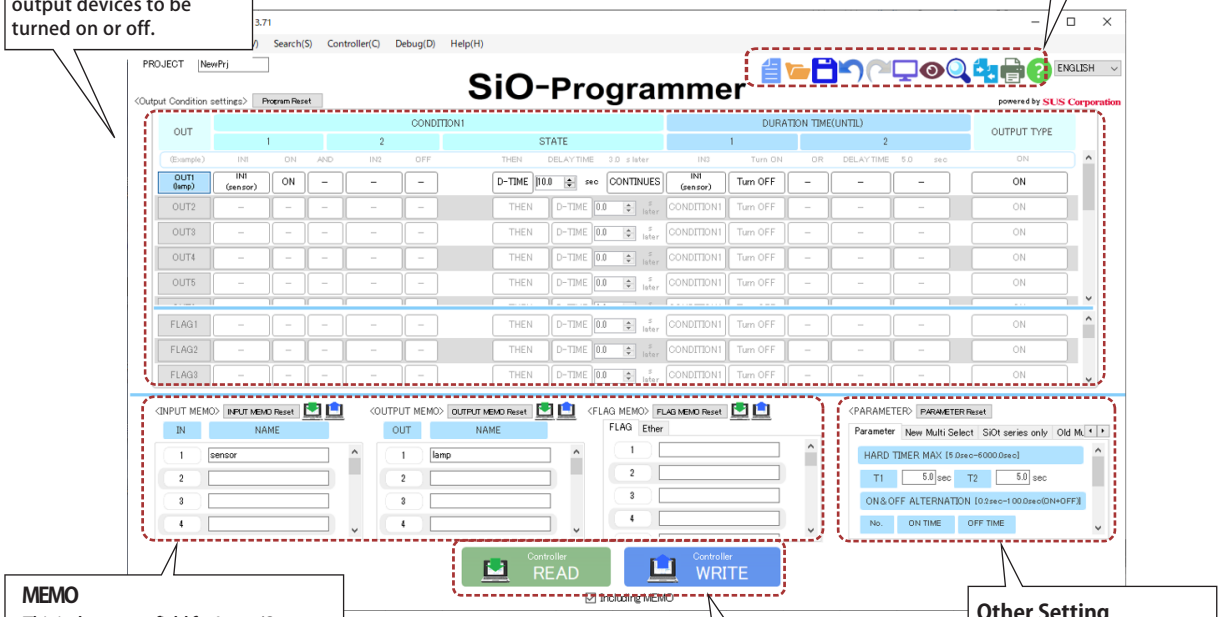
For SiO series

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.

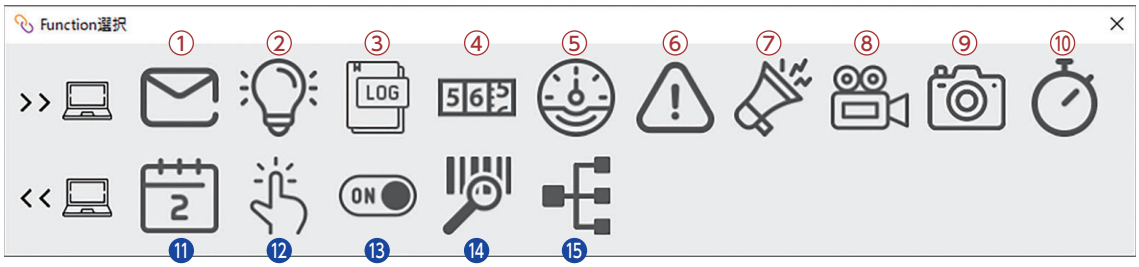
For SiOt／MiO

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

① Mail



When the specified controller meets the condition, an e-mail would be sent.

② Lamp

Seven colors of lamps are available.



The I/O (input/output) status of a particular controller is shown with a lamp on the PC display.

③ Log Output



Saves the I/O status of the specified controller in CSV format.

④ Counter
⑤ Indicator



Counter Display　Indicator Display

Displays the I/O status of the specified controller using a counter or indicator format on the PC display.

⑥ Alert Screen



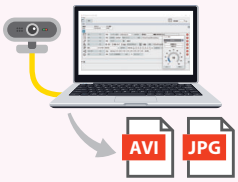
Display a warning window with the specified wording on the PC when the specified controller meets the condition.

⑦ Sound



Sound is played on the PC when the specified controller meets the conditions.

⑧ Video Shooting
⑨ Photographing



A camera connected to a PC shoots video before and after or take photo the condition is met.

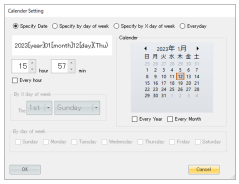
⑩ Stopwatch



Measures the time that a specified controller meets a condition, and can be saved in CSV format, useful for measuring tact time, etc.

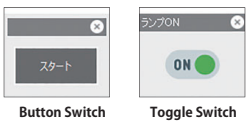
Sending signals from a PC to SiOt

⑪ Calendar Setting



Sends a signal to the specified controller once the PC's clock reaches the set date and time.

⑫ Button Switch
⑬ Toggle Switch



Turns the signal ON/OFF for the specified controller using the button switch or toggle switch displayed on the screen of the PC.

⑭ Barcode



Sends a signal to the specified controller by reading the set point with a Barcode Scanner connected to a PC.

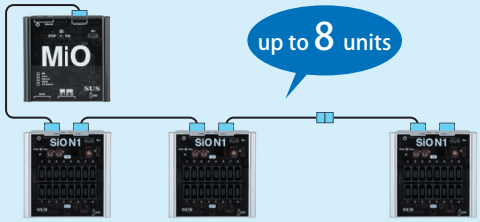
⑮ Controller Links



Sends a signal to another controller once the specified controller meets the condition.

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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.

Connector			e-CON
Input / Output Points	Input 2 / Output 2	Input 4 / Output 2	Input 6 / Output 4
IoT The latest model in the SiO series with Ethernet communication function. Through the network IoT is realized by linking with a PC.	**MiO**  Multi-I/O controller that can connect up to 8 units of SiO-N1 or N3 and also compatible with Ethernet communication.	**SiOt**  Add Ethernet communication ability to the minimum number of input/output points.	
SiO Net Work Up to eight SiO model for net work (SiO-N1/N3) can be connected and managed together to build facilities of a larger scale.		Example of SiO network connection  **Maximum number of input 128 /output 128 points** **(when 8 units of SiO-N3 are connected)**	
Standard Best suited for simple kaizen and motorized karakuri, which can be handled with a small points of input/output single controller.		**SiO3.2**  Input 3 / Output 2 The smallest model in the series in size and number of input/output points.	**SiO2**  Best input 6 / output 4 points model for simple Kaizen.

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 (Refrection)


Lamp 3 colors (Red · Yellow · Green)


Voice Player

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

Check various cases of use from next page



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


ALM
Ethernet
STOP / RUN
SiOt
24V
0V
IN
1 2 3 4
OUT
24V
0V
OUT
SUS
24V
PW
Ethernet
STOP / RUN
T1
T2
SiOt1
IN 1 2 3 4 5 6 7 8
OUT 1 2 3 4 5 6 7 8
24V
0V
IN
24V
0V
OUT
SUS
24V

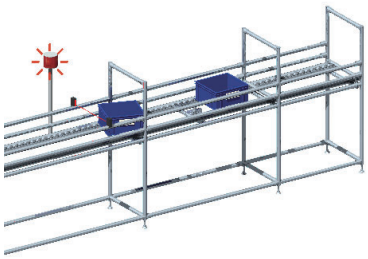


Use Case of SiOt

- 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

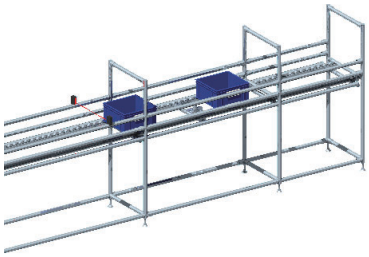
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1 Send a mail when the workpiece was stuck on line.



P.14

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



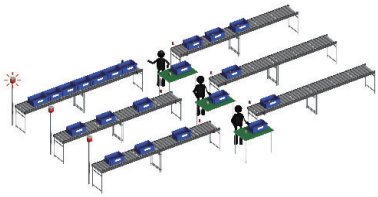
P.14

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



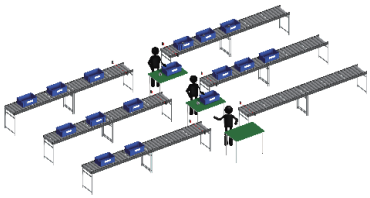
P.15

4 Send a mail when the workpieces are stuck.



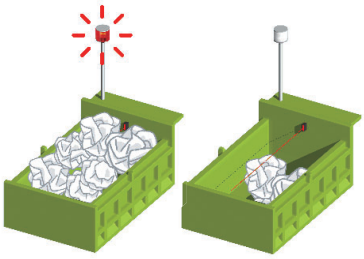
P.15

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



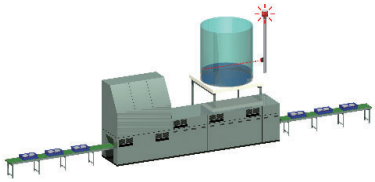
P.16

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



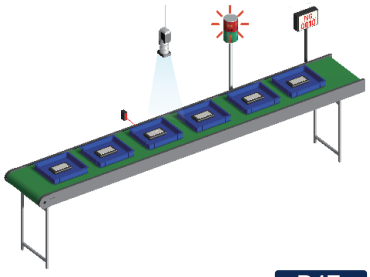
P.16

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.



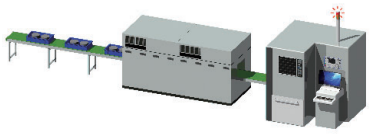
P.17

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



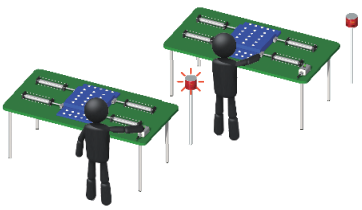
P.18

10 Send a mail when the error occurs.



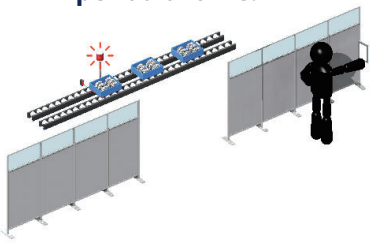
P.18

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



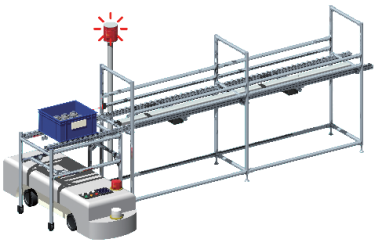
P.19

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



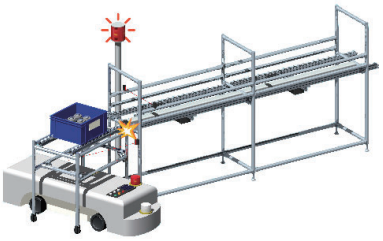
P.19

13 Send a mail when the AGV arrived.



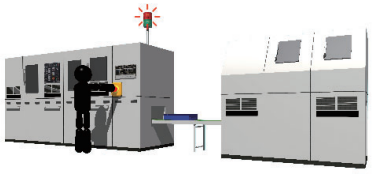
P.20

14 Send a mail when the AGV failed delivery.



P.20

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



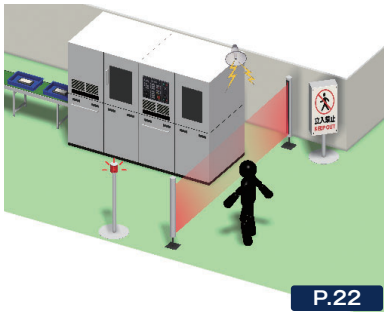
P.21

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



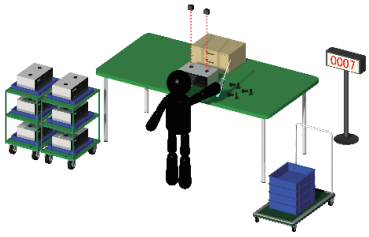
P.21

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.



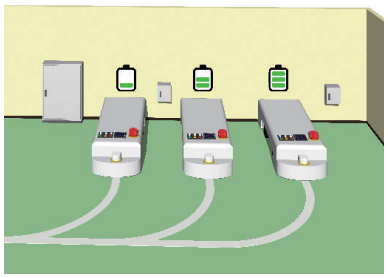
P.22

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



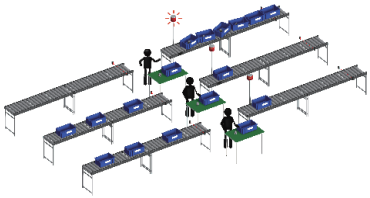
P.23

20 Send a mail when the AGV is fully charged.



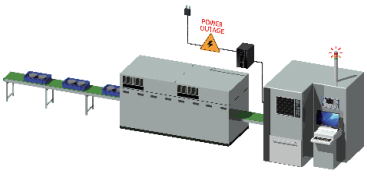
P.23

21 Send a mail when workpieces stuck on lines.



P.24

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



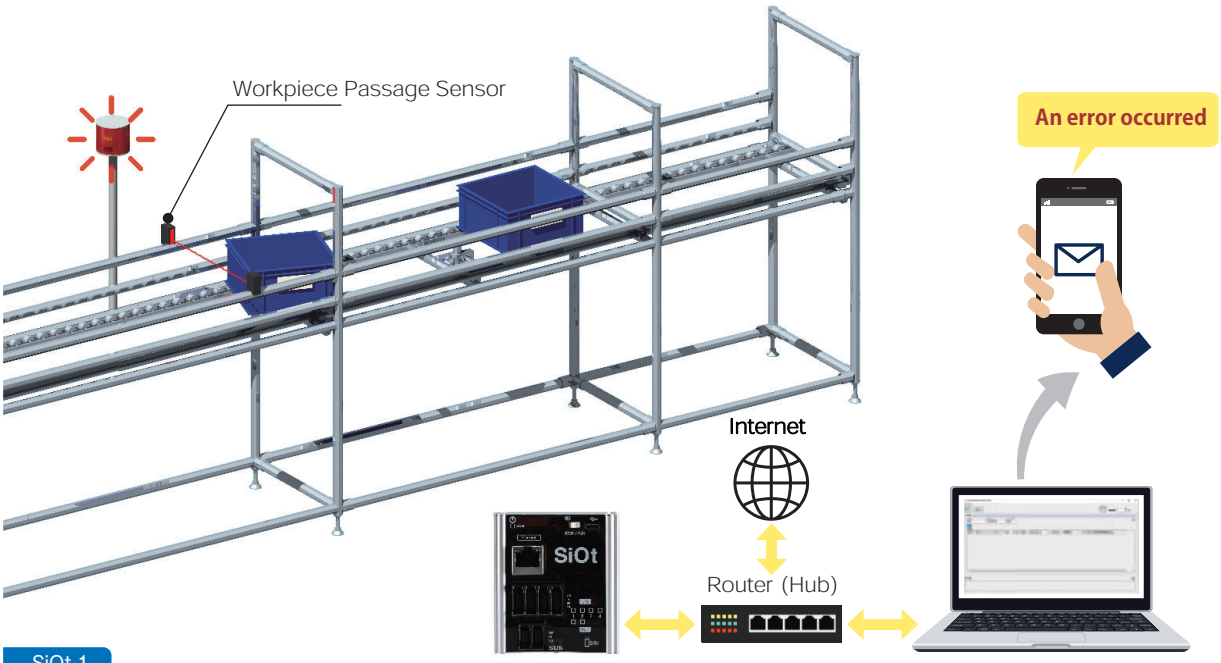
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1 Send a mail to staff when the workpiece was stuck on line.

You need

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



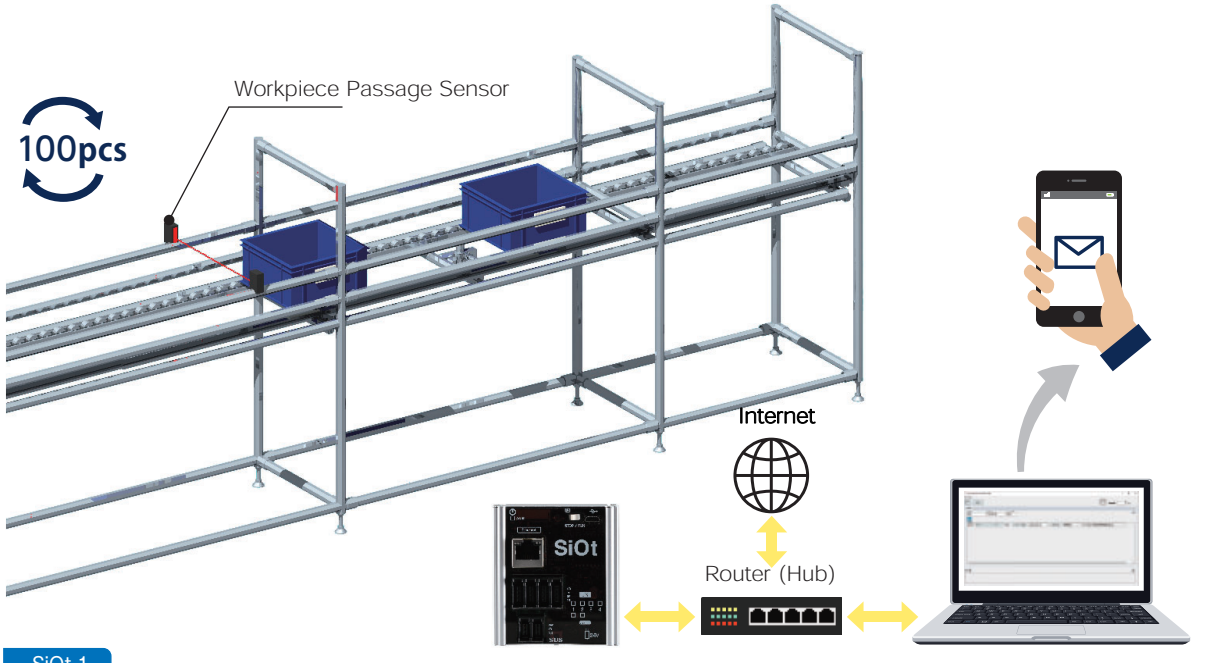
SiOt 1

MAIL	FLAG01	ON	then send a mail to	info@sus.co.jp	Subject : An error occurred	Message : An error was detected on the line.

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

You need

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



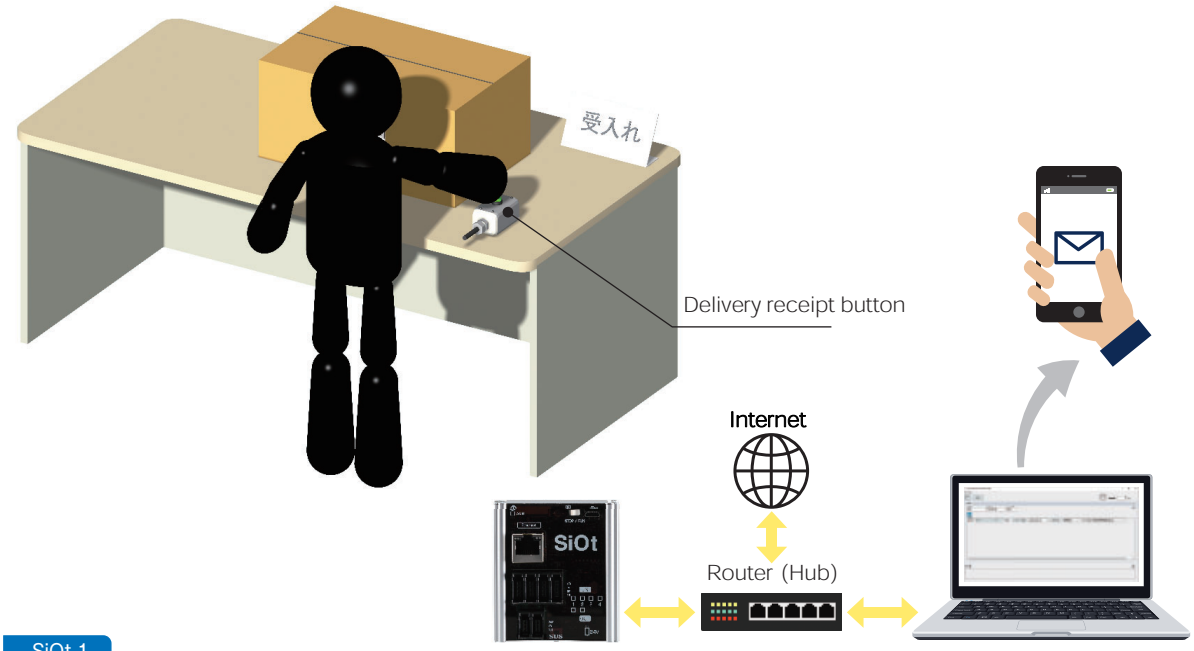
SiOt 1

MAIL	FLAG01	ON	then send a mail to	info@sus.co.jp	Subject : Reach the number of target	Message : Reach 100pcs

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



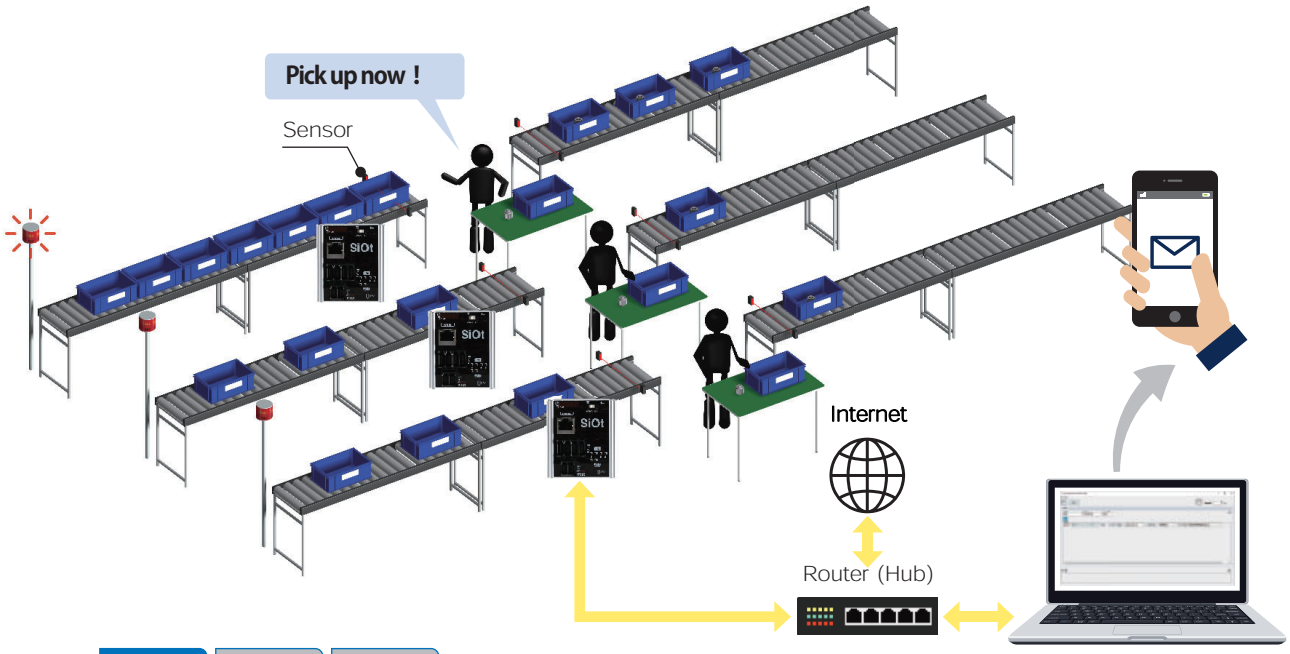
SiOt 1

MAIL	IN01	ON	then send a mail to	info@sus.co.jp	Subject : Delivery Notice	Message : The cargo were delivered

4 Send a mail to staff when the workpieces are stuck.

You need

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

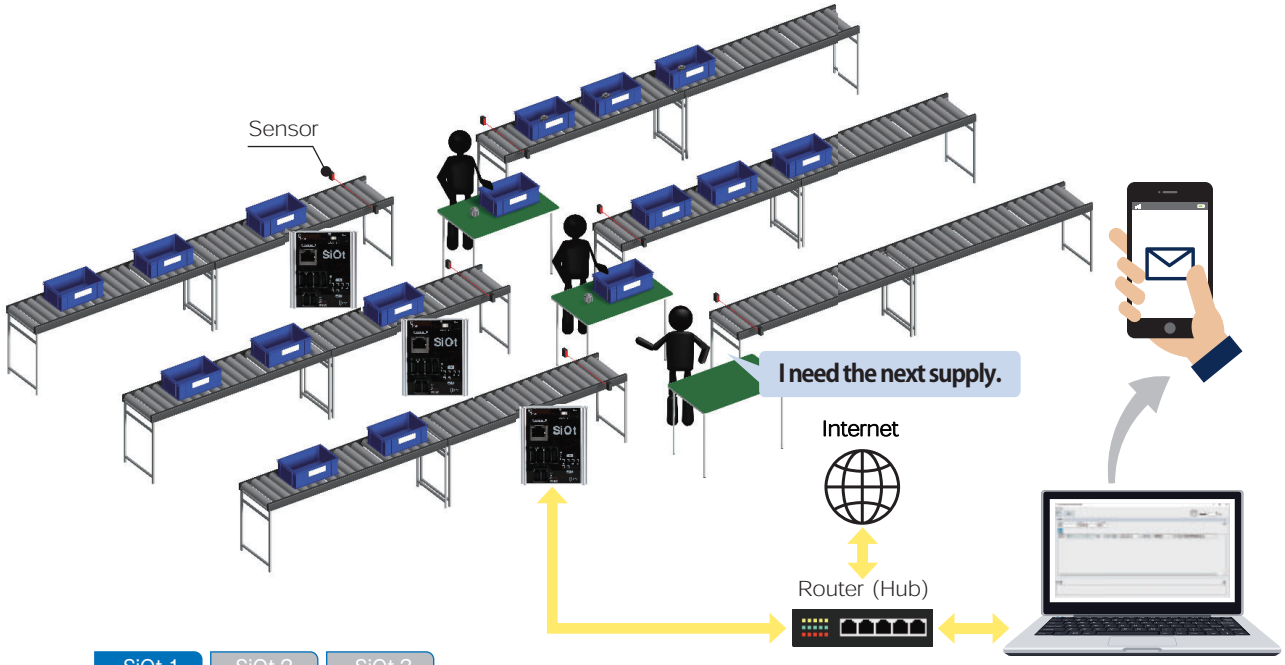


SiOt 1 | SiOt 2 | SiOt 3

MAIL	OUT01	ON A.	then send a mail to	info@sus.co.jp	Subject : Pick Up Request	Message : There is a Pick-Up request on line

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

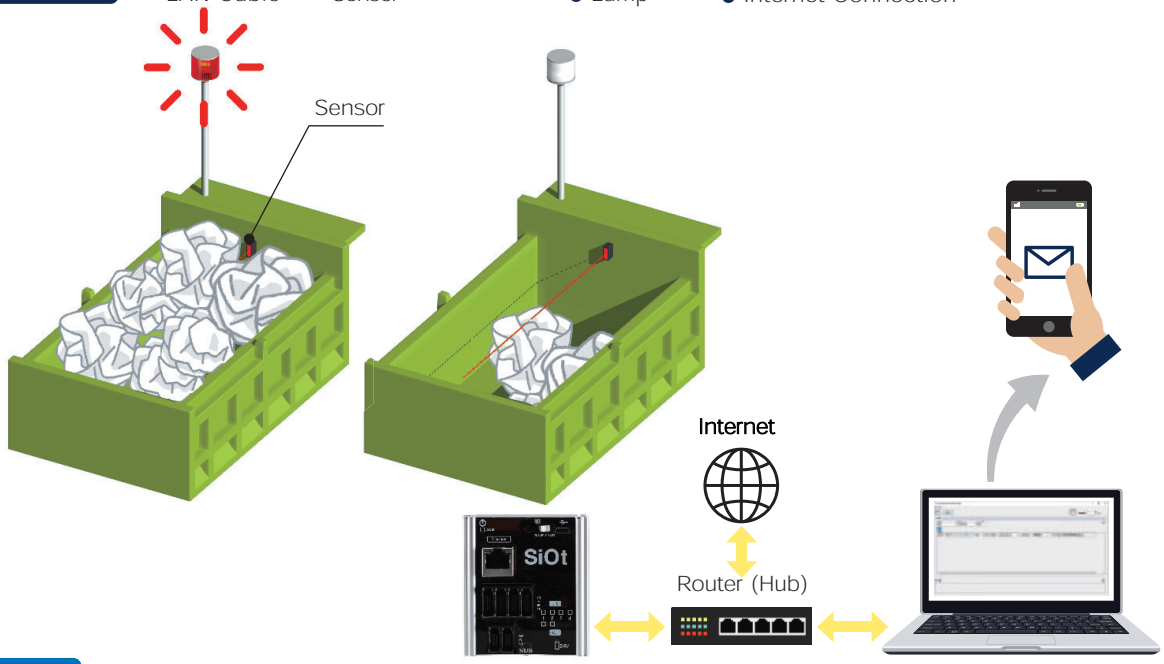


SiOt 1 | SiOt 2 | SiOt 3

MAIL | FLAG01 | ON | then send a mail to | info@sus.co.jp | Subject : Supply Request | Message : Supply next workpieces on line.

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

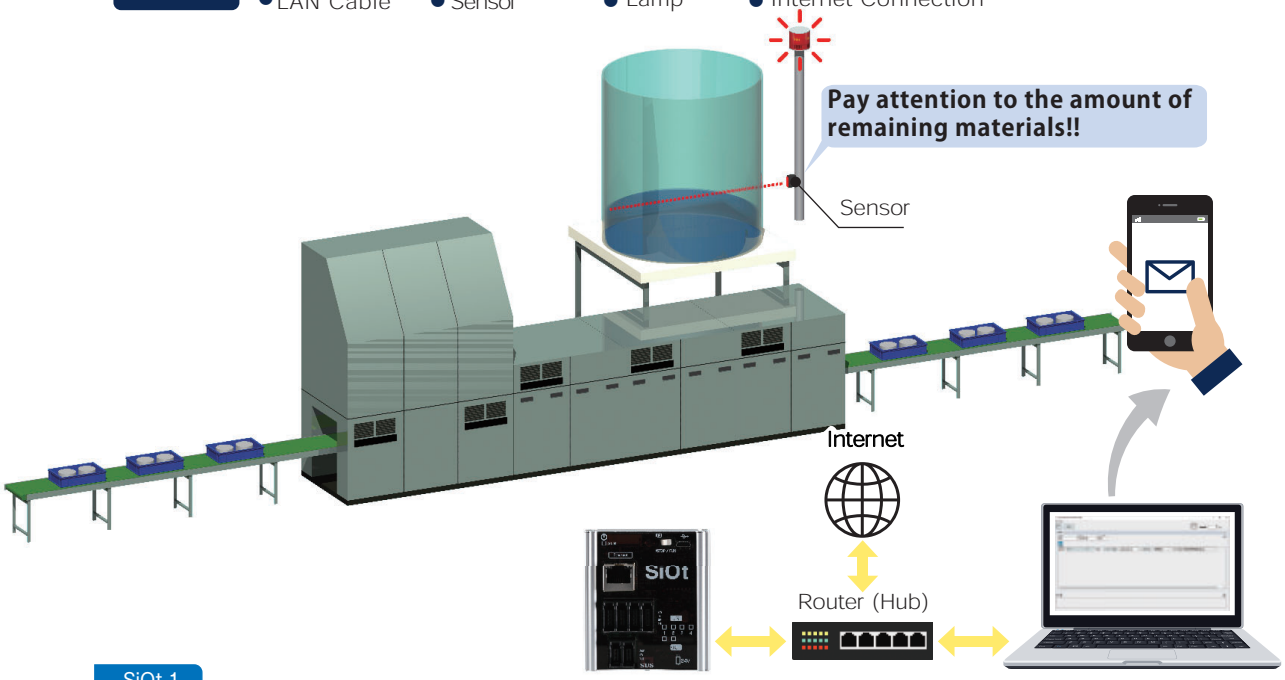


SiOt 1

MAIL | OUT01 | ON | then send a mail to | info@sus.co.jp | Subject : Full Detection | Message : The Container A are stacked up to full.

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

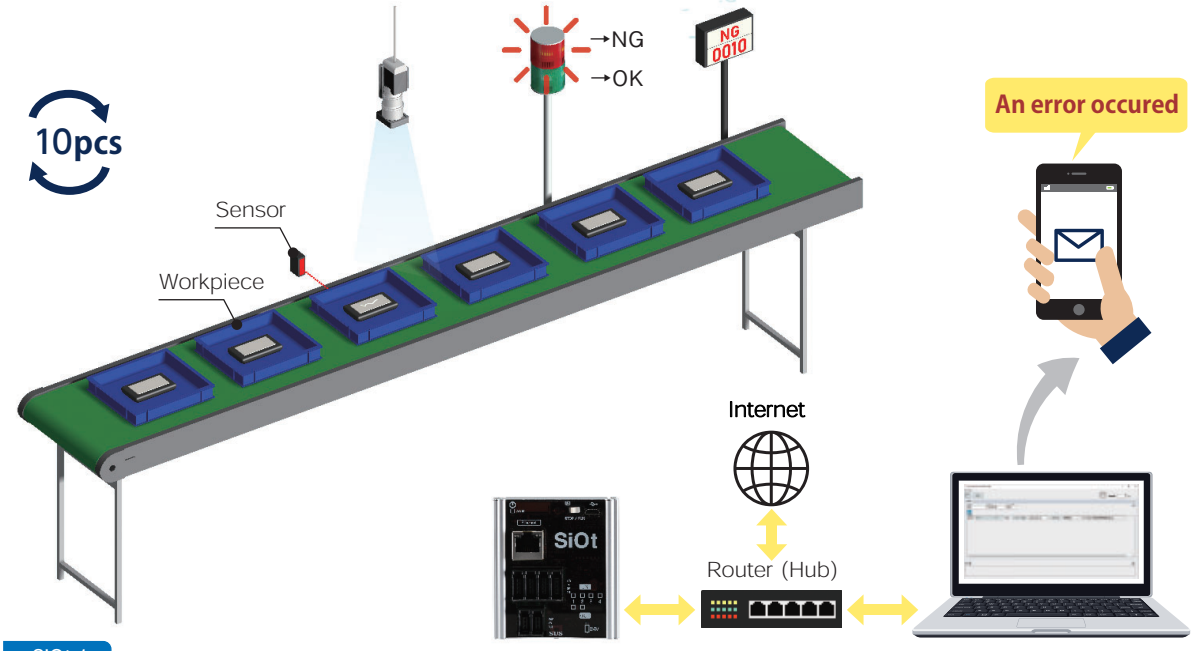


SiOt 1

MAIL	OUT01	ON	then send a mail to	info@sus.co.jp	Subject : Notice of Supply	Message : The materials will run out soon.

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



SiOt 1

MAIL	FLAG01	ON	then send a mail to	info@sus.co.jp	Subject : Notice of Failures	Message : The number of failures exceeded 10 pcs.

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

You need

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



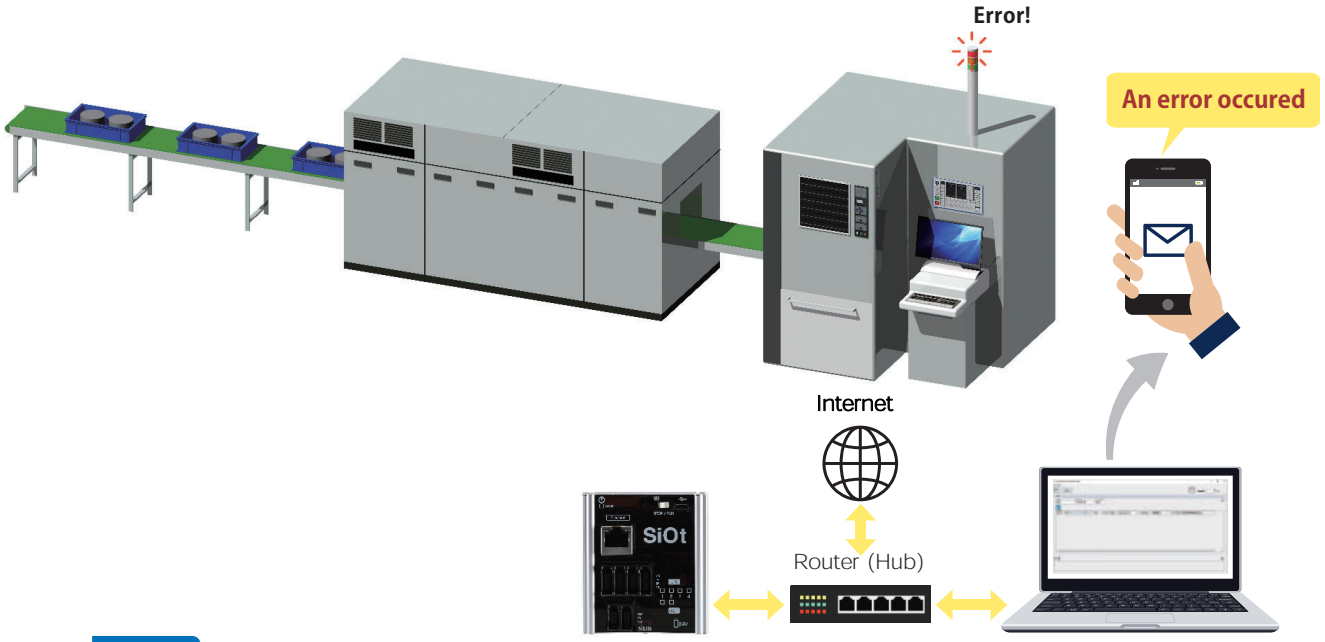
SiOt 1

MAIL	OUT01	ON	then send a mail to	info@sus.co.jp	Subject : Heat Alert	Message : The machine's temperature is exceeding .

10 Send a mail to staff when the error occurs.

You need

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



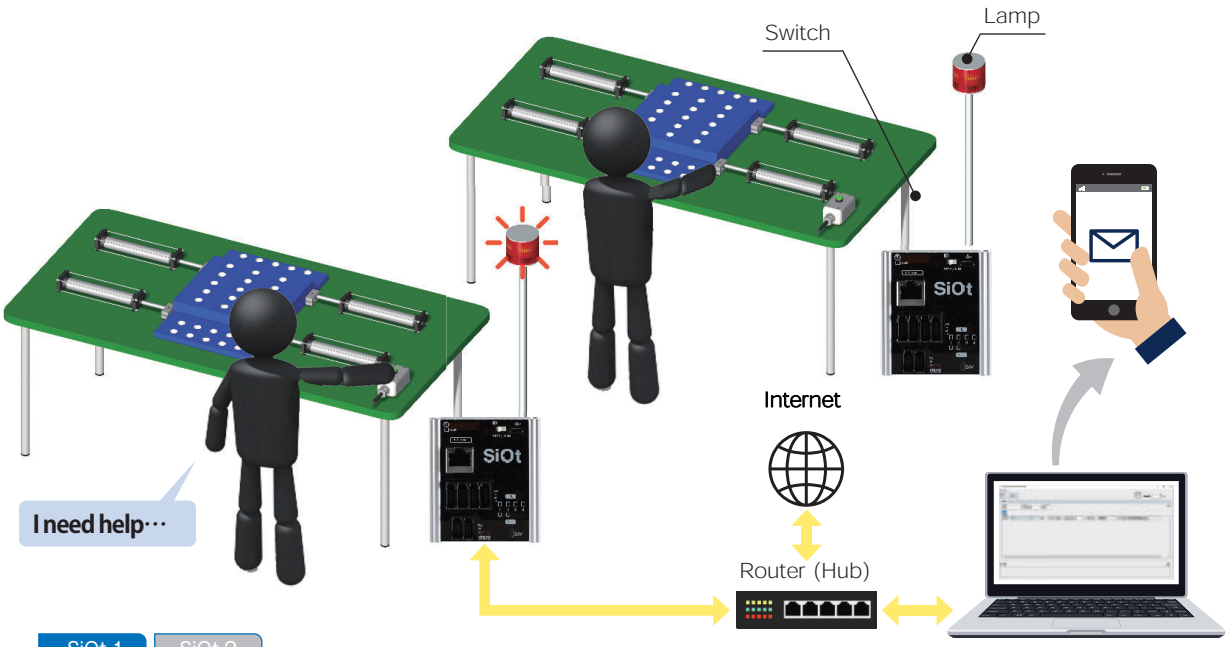
SiOt 1

MAIL	IN01	ON	then send a mail to	info@sus.co.jp	Subject : Device Error	Message : The error occurs at devices.

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



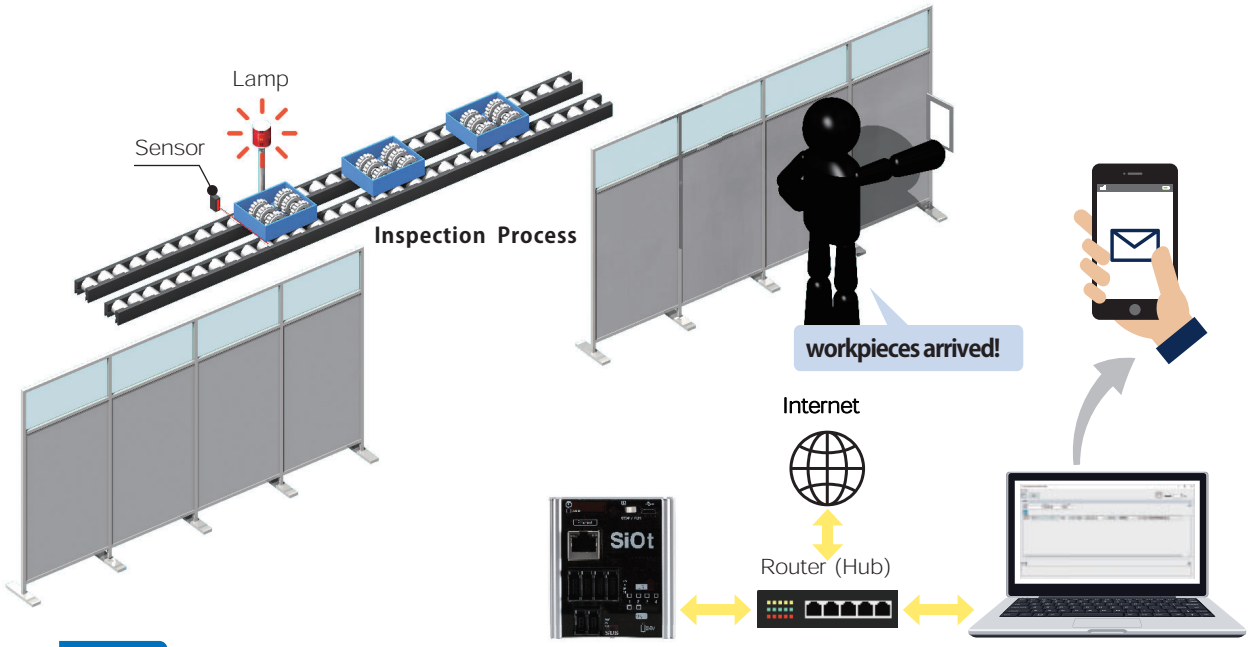
SiOt 1 | SiOt 2

MAIL	OUT01	ON	then send a mail to	info@sus.co.jp	Subject : Calling	Message : Calling from station A

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
- Router ※Not required when connecting SiOt directly to a PC.
- Lamp
- Internet Connection

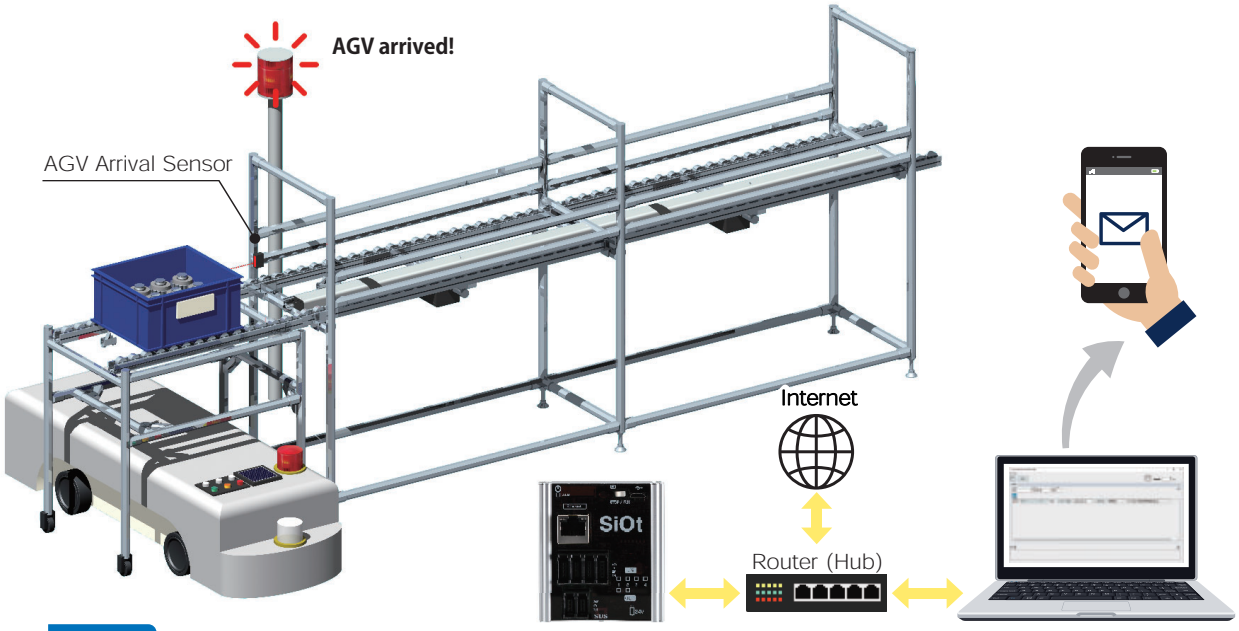


SiOt 1

MAIL	OUT01	ON	then send a mail to	info@sus.co.jp	Subject : Inspection Request	Message : Workpiece is waiting for inspection.

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

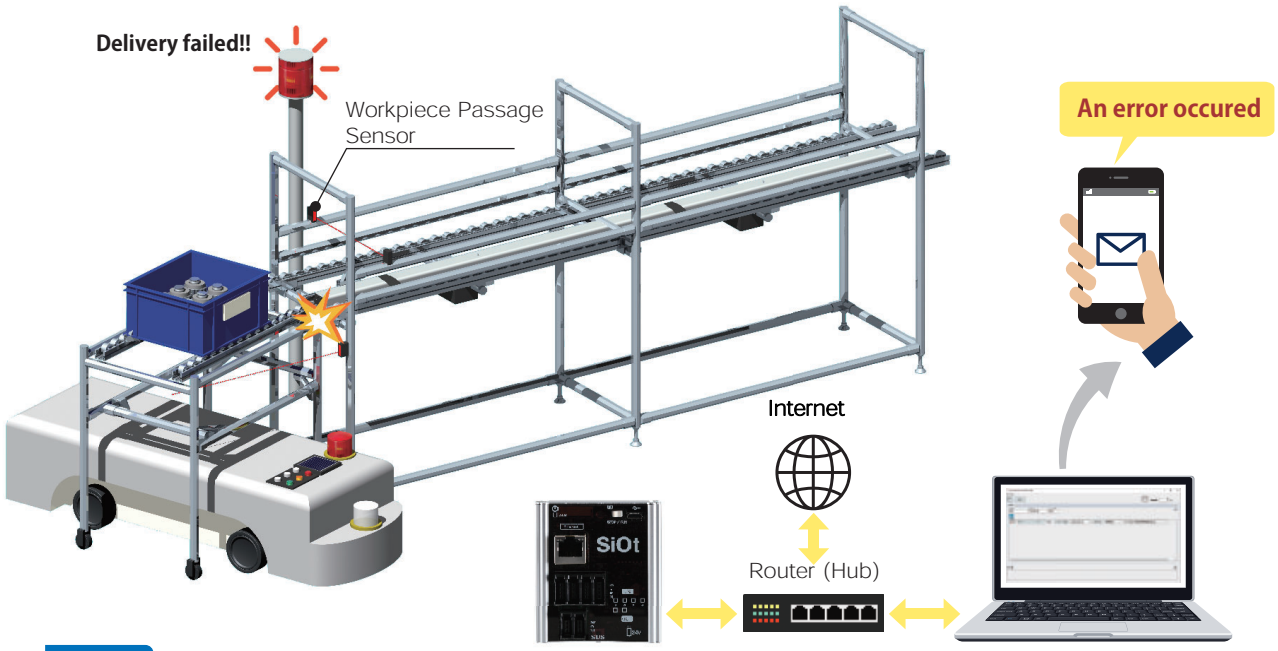


SiOt 1

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



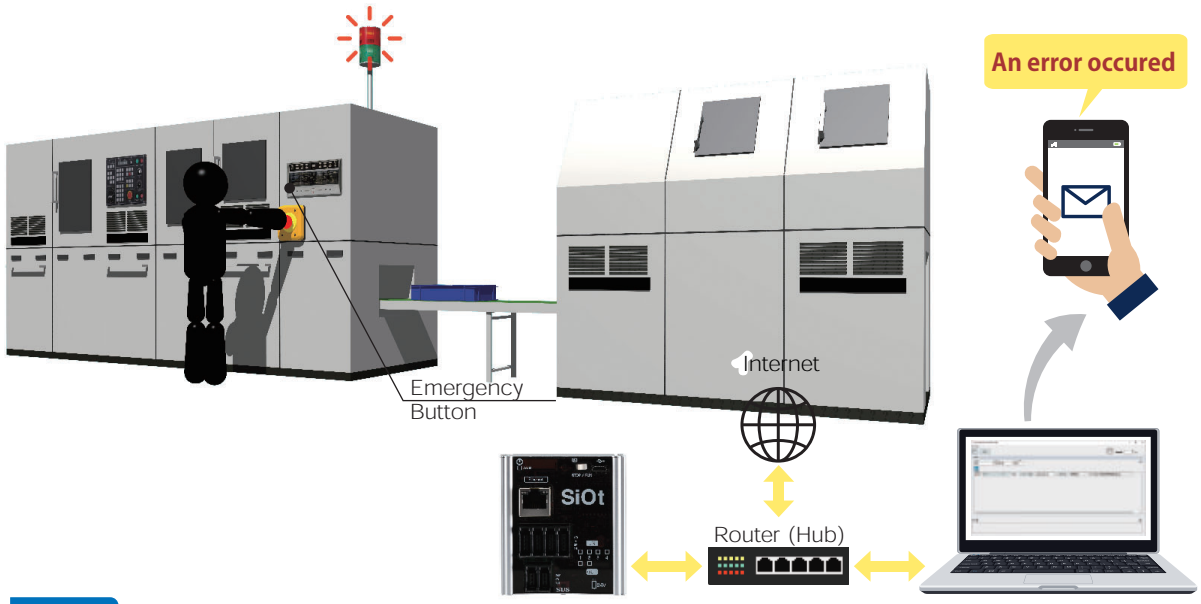
SiOt 1

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)
- Router ※Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection
- 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)
- Router ※Not required when connecting SiOt directly to a PC.
- Sensor
- Internet Connection

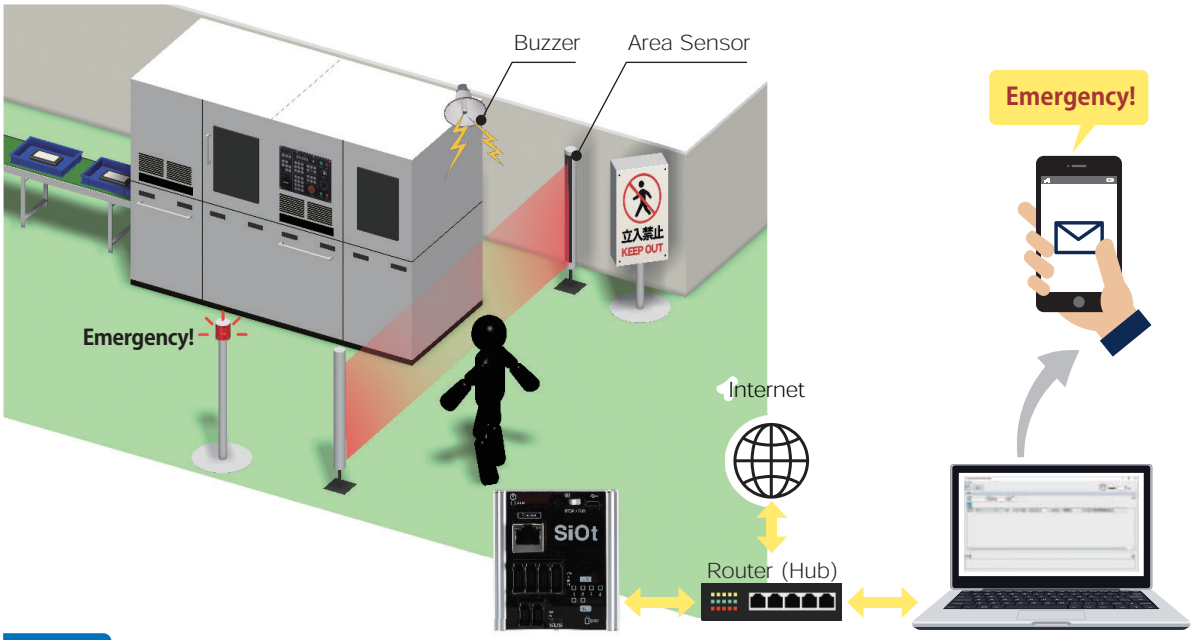


SiOt 1

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

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

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

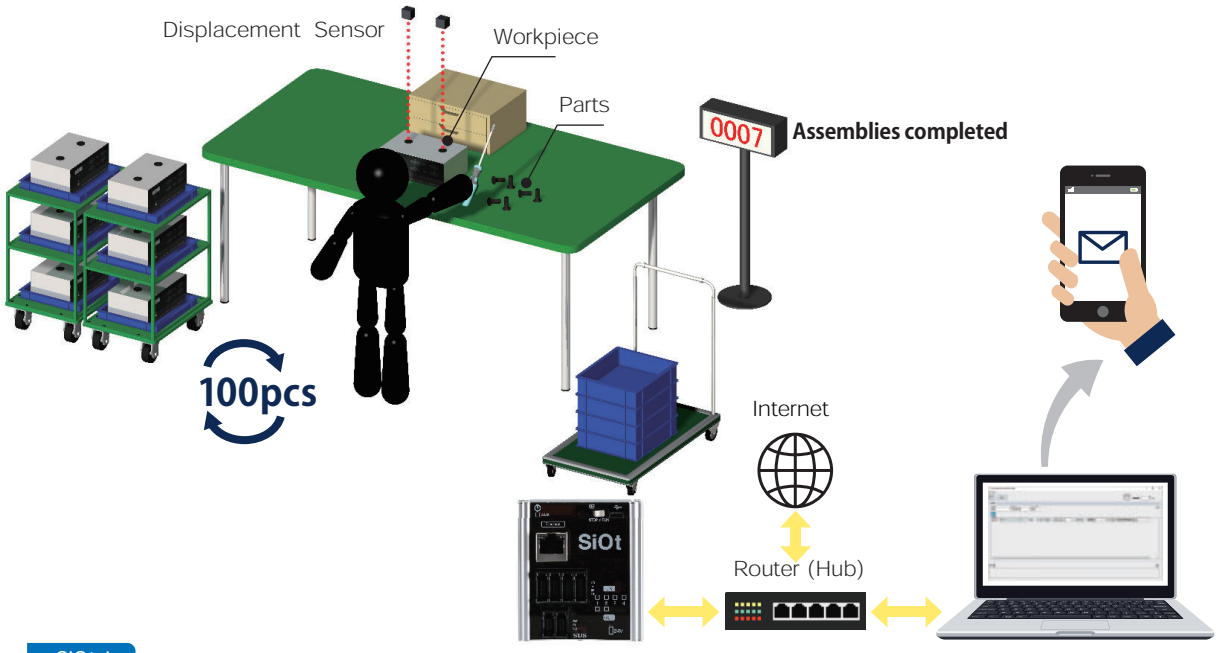


SiOt 1

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



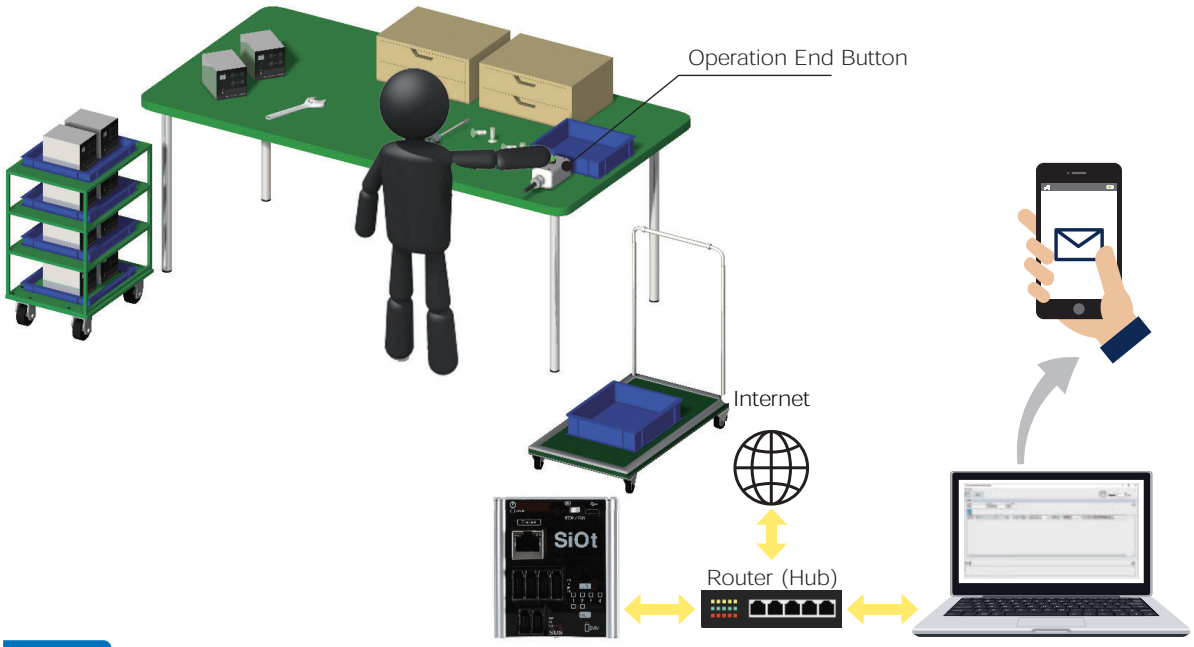
SiOt 1

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



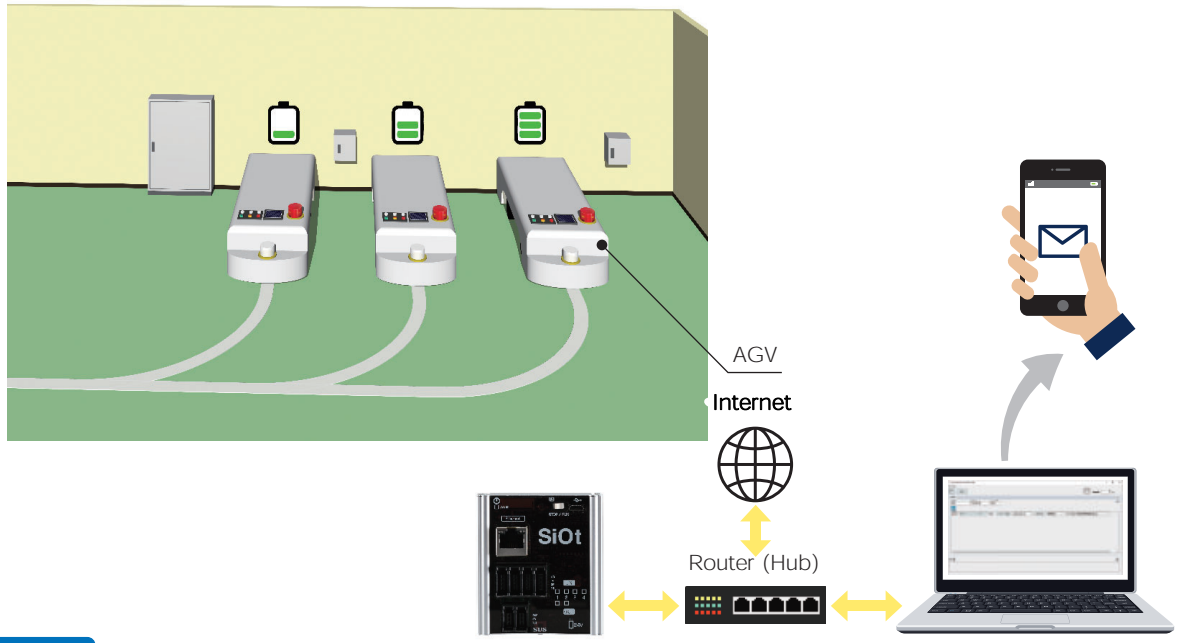
SiOt 1

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(IoTProgrammer)
- IO cable for for AGV
- Router ※Not required when connecting SiOt directly to a PC.t
- Internet Connection

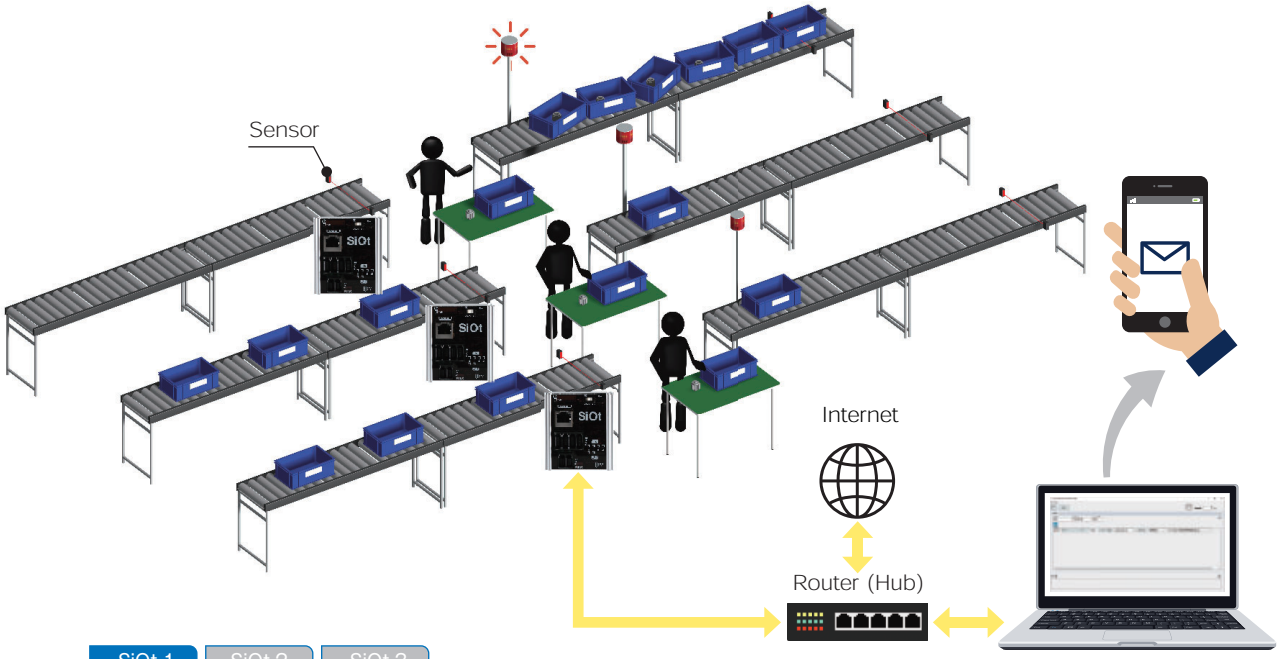


SiOt 1

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

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

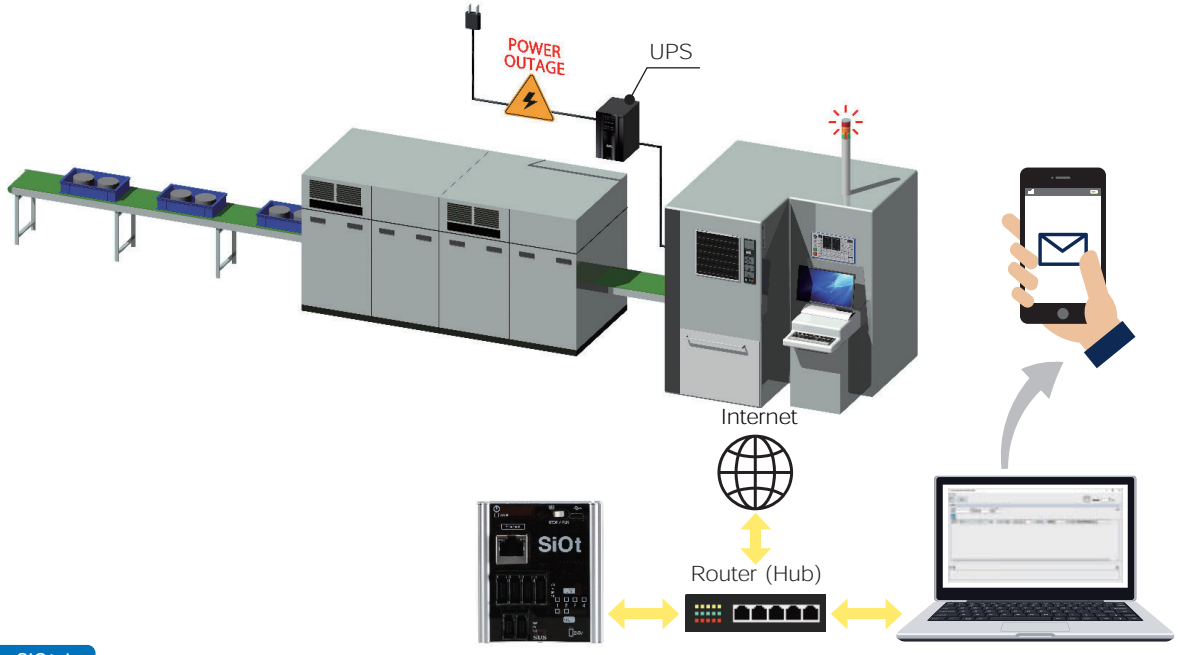


SiOt 1 | SiOt 2 | SiOt 3

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.

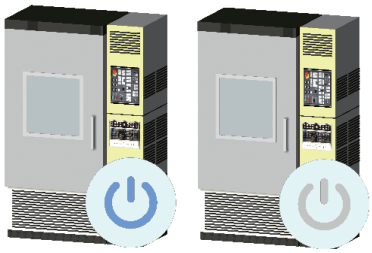
You need
- SiOt
- LAN Cable
- PC(IoTProgrammer)
- UPS
- Router ※Not required when connecting SiOt directly to a PC.
- IO cable for UPS Connection
- Internet Connection



SiOt 1

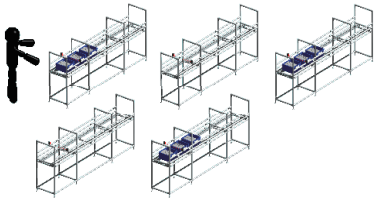
MAIL | IN01 | ON | then send a mail to | info@sus.co.jp | Subject : Blackout | Message : Blackout detected at device.

23 Display the status of each devices by lights.



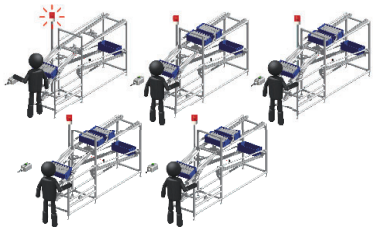
P.28

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



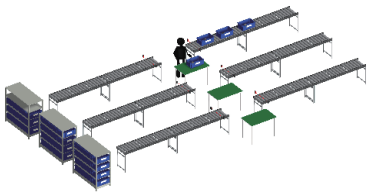
P.28

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



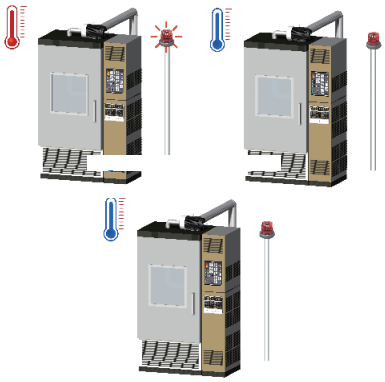
P.29

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



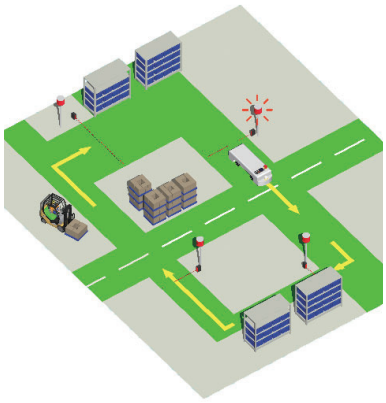
P.29

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



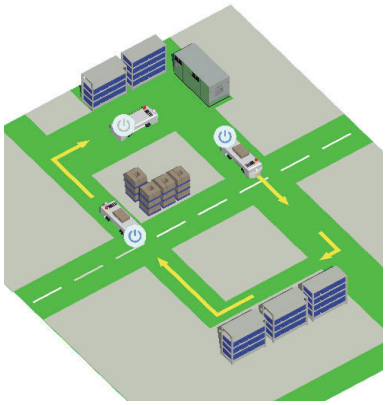
P.30

28 Display the status of trace of AGV on PC.



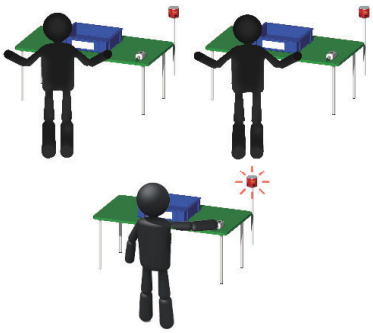
P.30

29 Display the status of AGV on PC.



P.31

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



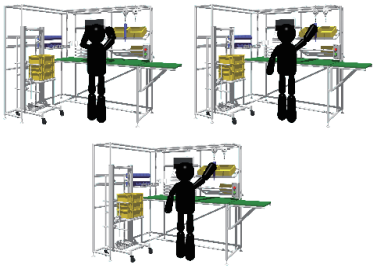
P.31

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



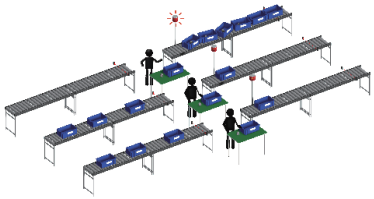
P.32

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



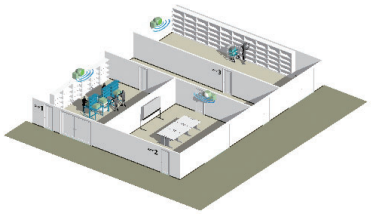
P.32

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



P.33

34 Display the status of area whether there are operators.



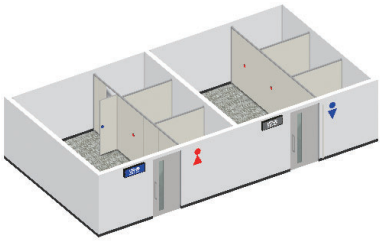
P.33

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



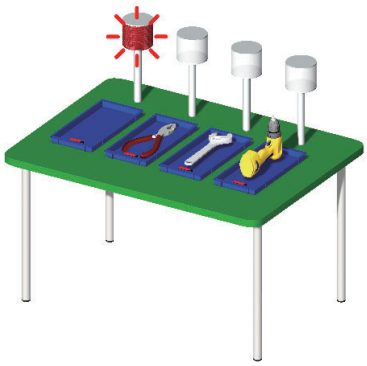
P.34

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



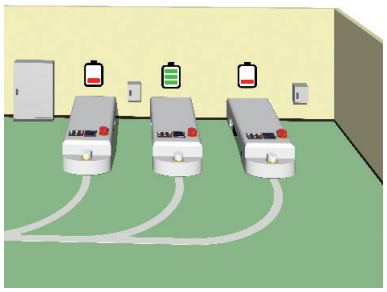
P.34

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

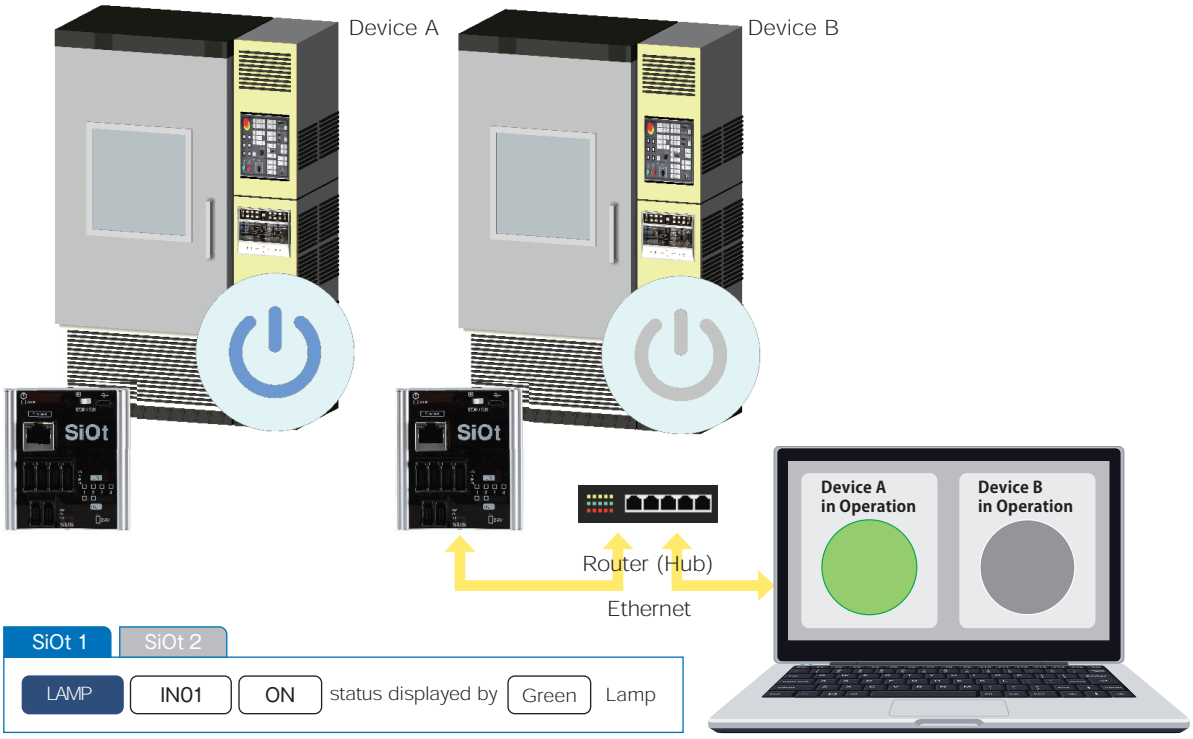
39 Display the equipment status of aging or testing on PC.



P.36

23 Display the status of each devices by lights.

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

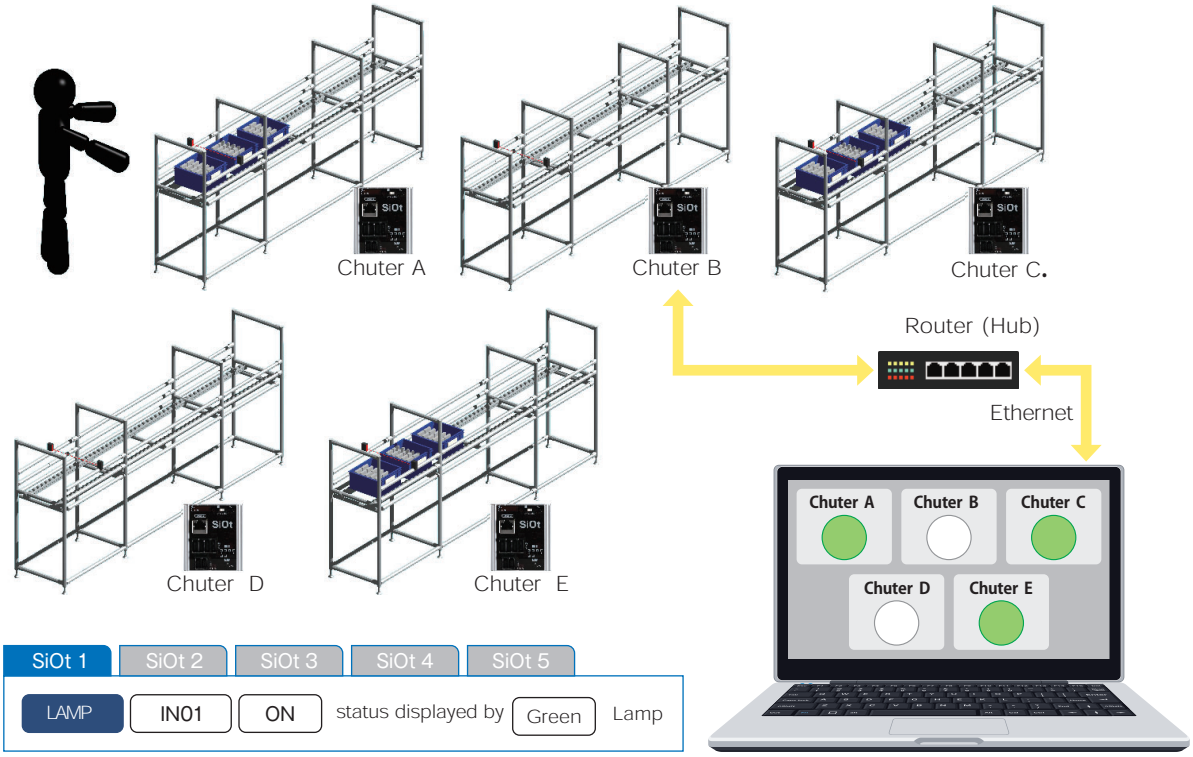


SiOt 1 | SiOt 2

LAMP | IN01 | ON | status displayed by | Green | Lamp

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

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



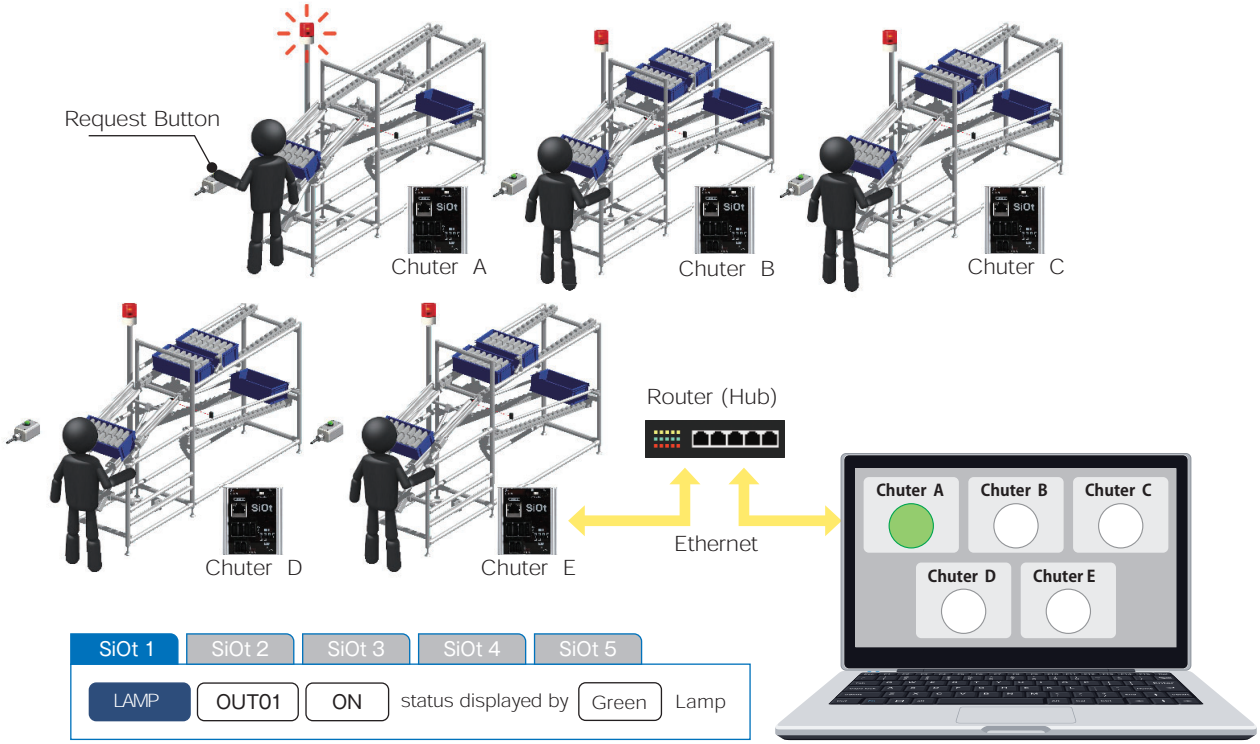
SiOt 1 | SiOt 2 | SiOt 3 | SiOt 4 | SiOt 5

LAMP | IN01 | ON | status displayed by | Green | Lamp

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

You need

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

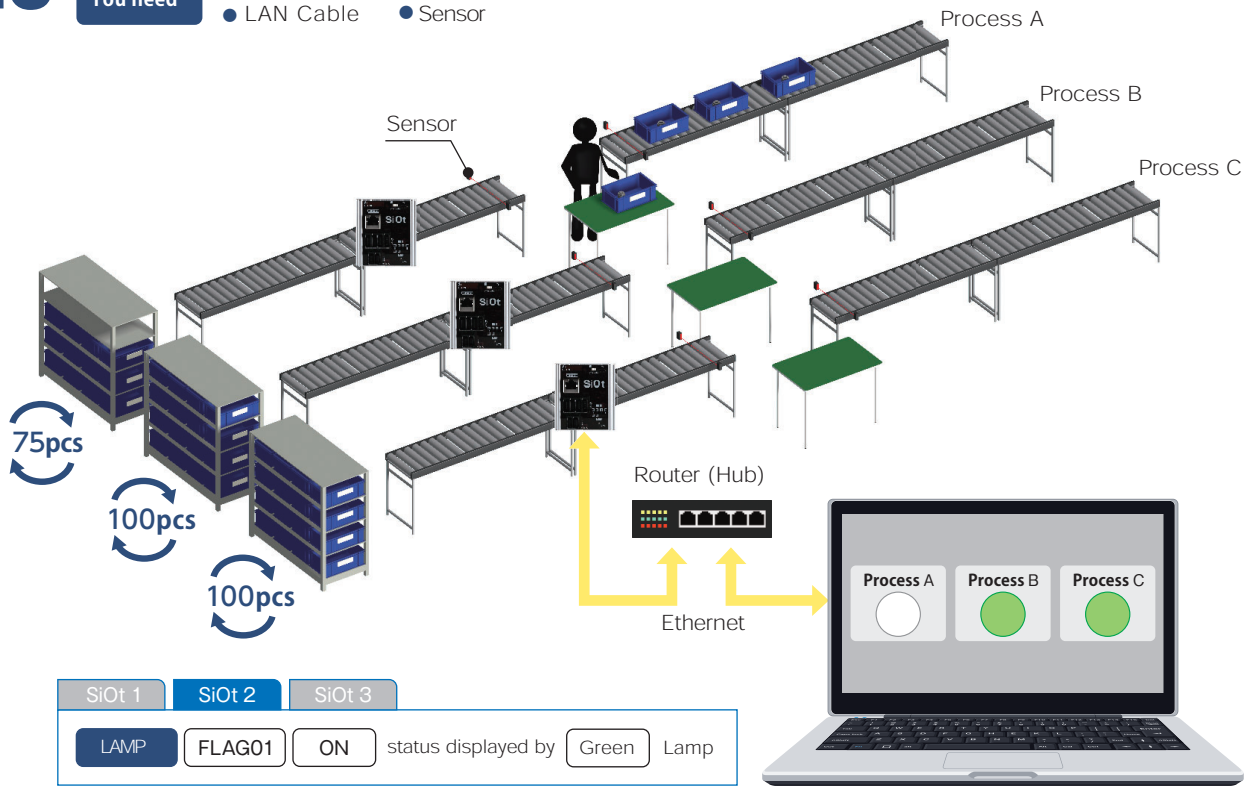


SiOt 1	SiOt 2	SiOt 3	SiOt 4	SiOt 5
LAMP	OUT01	ON	status displayed by	Green	Lamp

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

You need

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

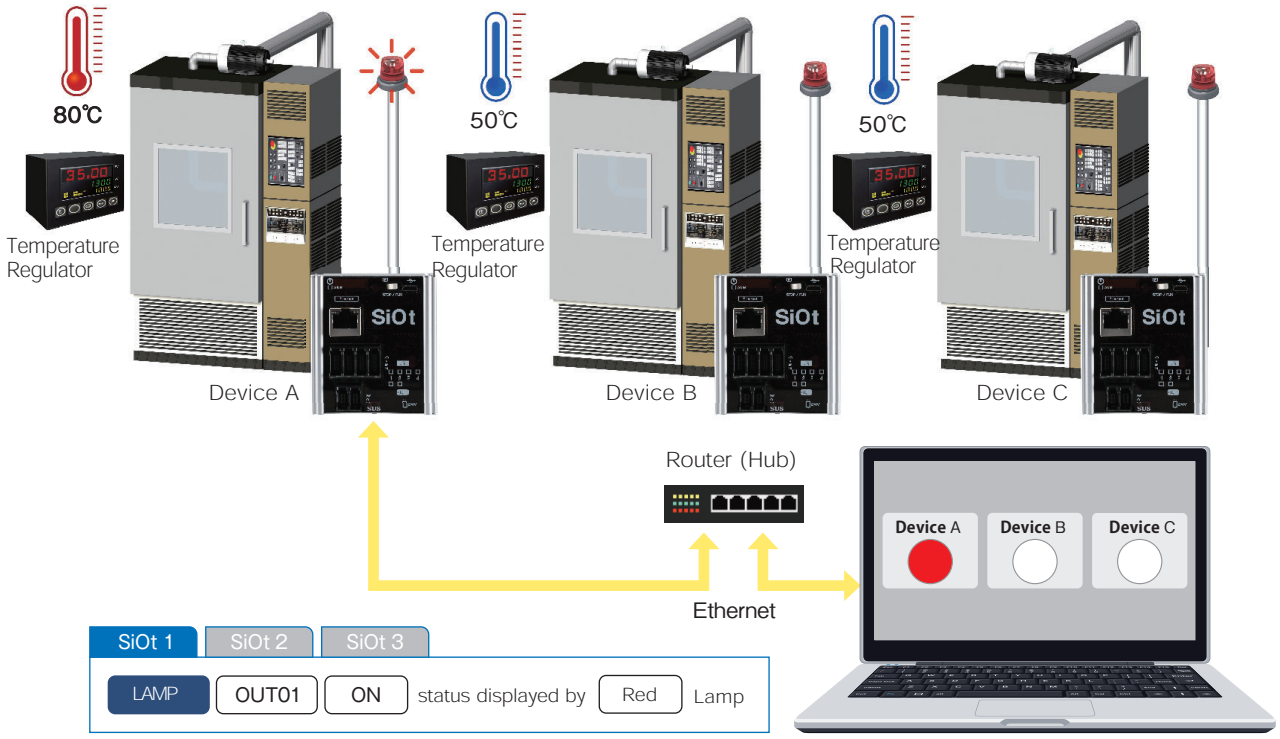


SiOt 1	SiOt 2	SiOt 3
LAMP	FLAG01	ON	status displayed by	Green	Lamp

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

You need

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

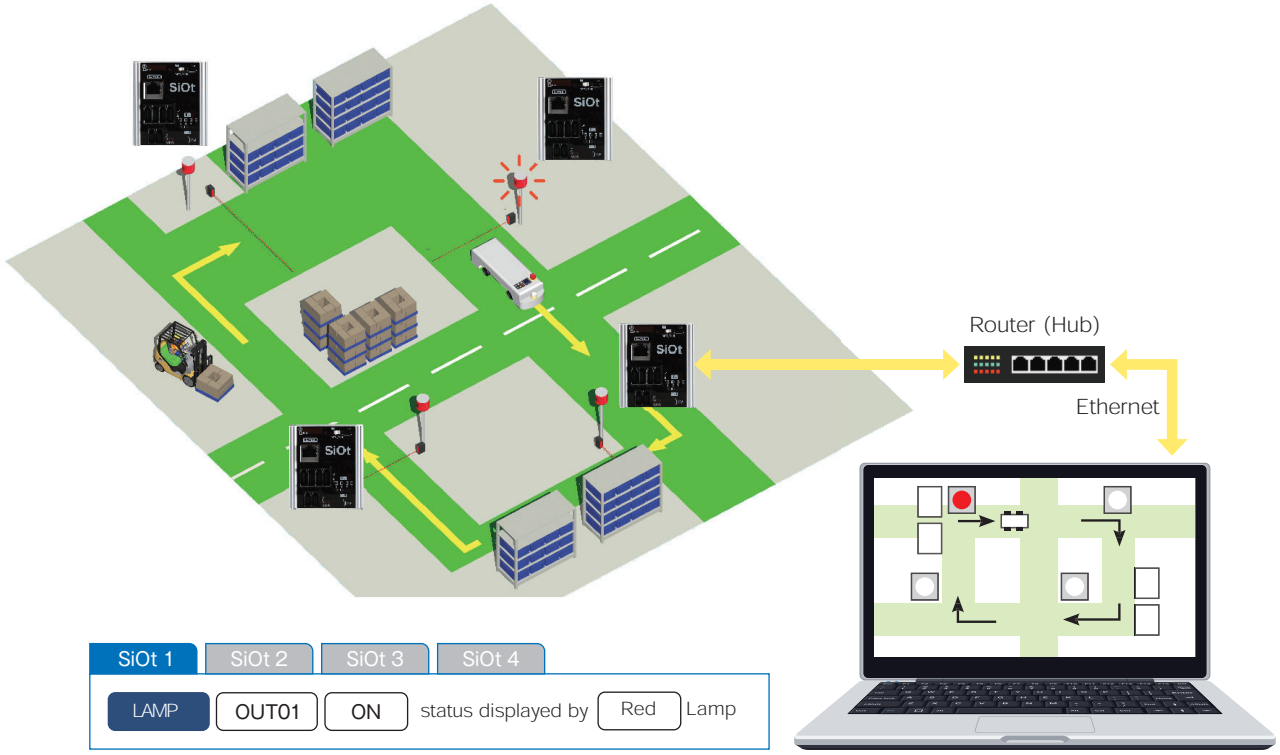


SiOt 1	SiOt 2	SiOt 3
LAMP	OUT01	ON status displayed by Red Lamp

28 Display the status of trace of AGV on PC.

You need

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

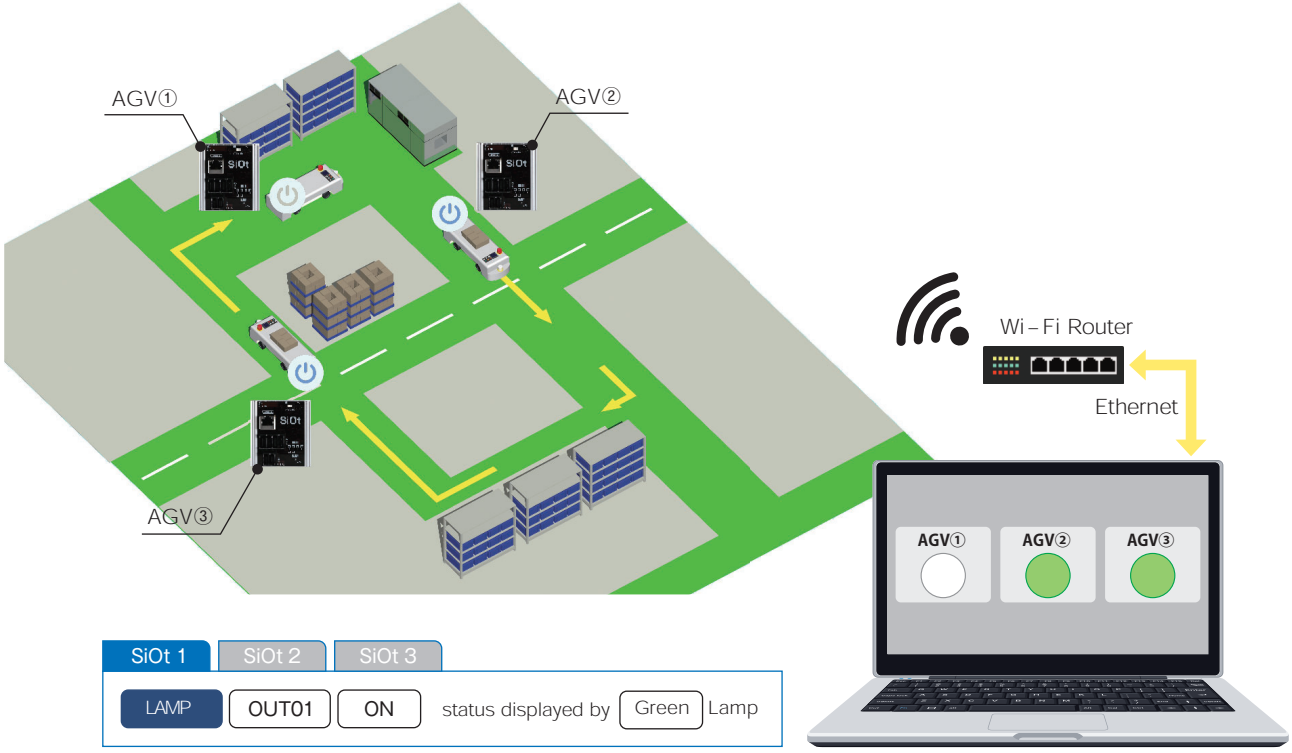


SiOt 1	SiOt 2	SiOt 3	SiOt 4
LAMP	OUT01	ON status displayed by Red Lamp	

29 Display the status of AGV on PC.

You need

- SiOt
- PC(IoTProgrammer)
- Wi-Fi Router
- Wi-Fi Repeater
- LAN Cable
- IO cable for for AGV

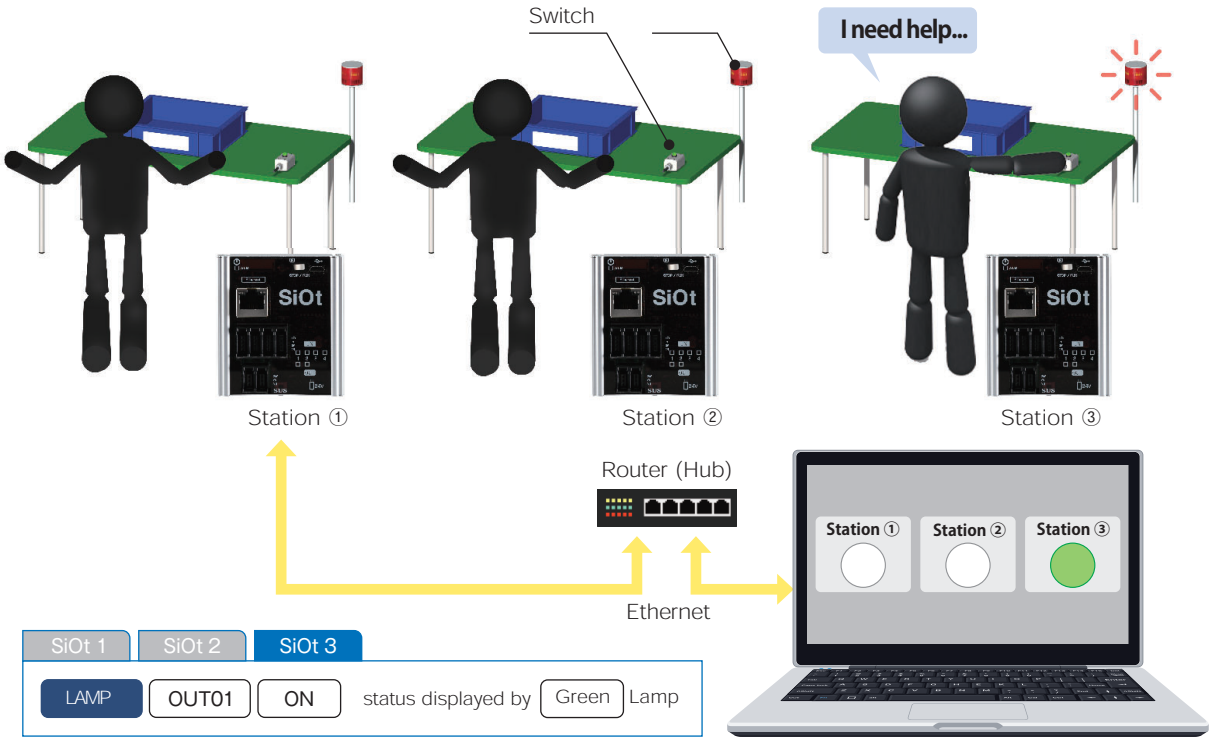


SiOt 1	SiOt 2	SiOt 3			
LAMP	OUT01	ON	status displayed by	Green	Lamp

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

You need

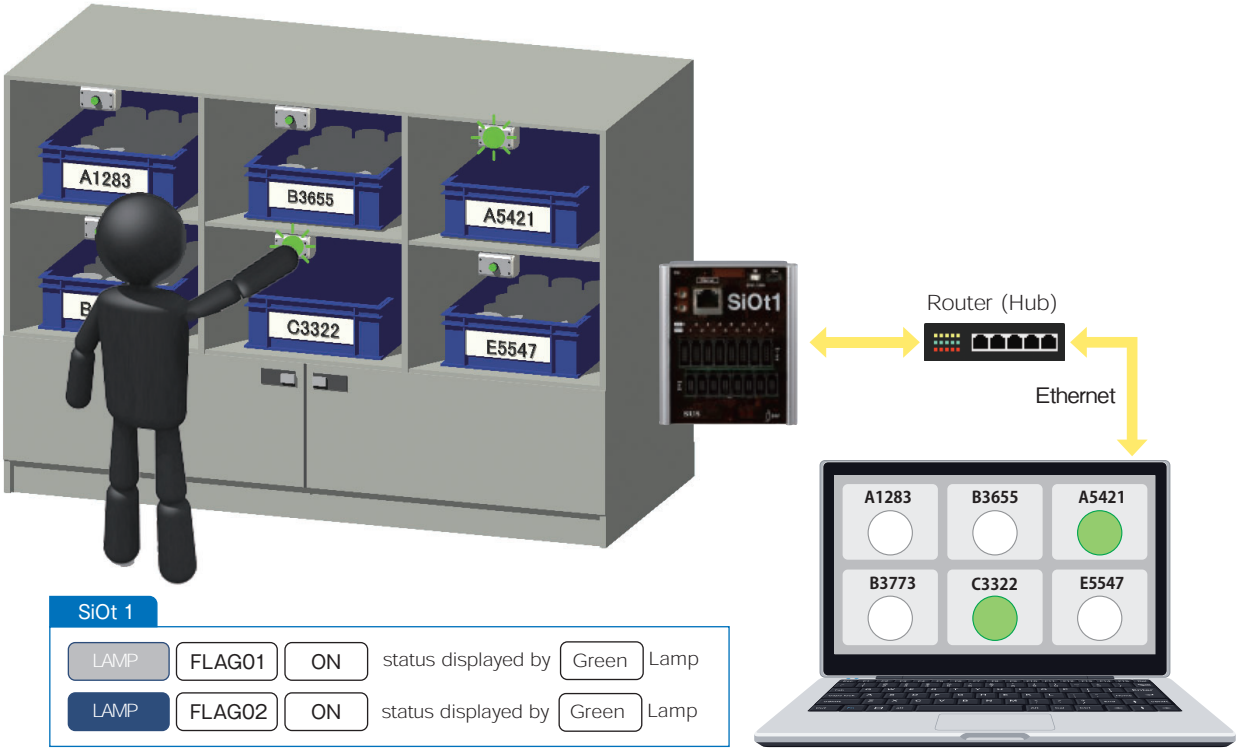
- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Switch
- Router ※Not required when connecting SiOt directly to a PC.
- Lamp



SiOt 1	SiOt 2	SiOt 3			
LAMP	OUT01	ON	status displayed by	Green	Lamp

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

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

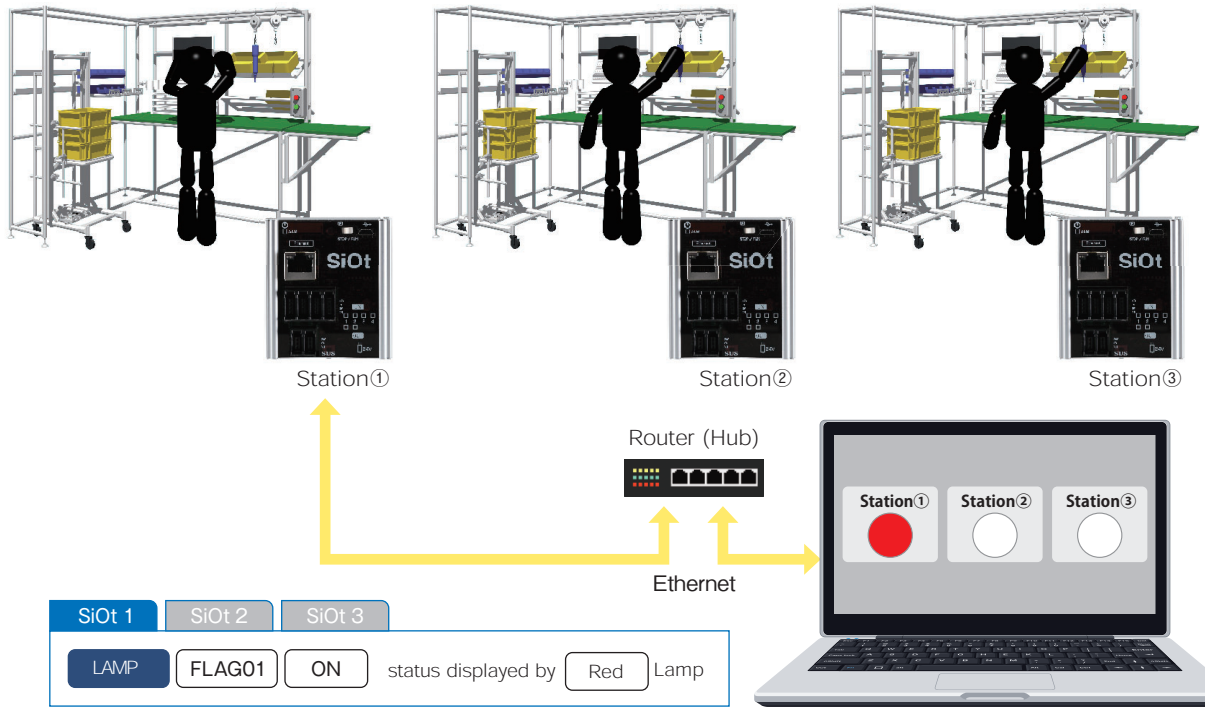


SiOt 1

LAMP	FLAG01	ON	status displayed by	Green	Lamp
LAMP	FLAG02	ON	status displayed by	Green	Lamp

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

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

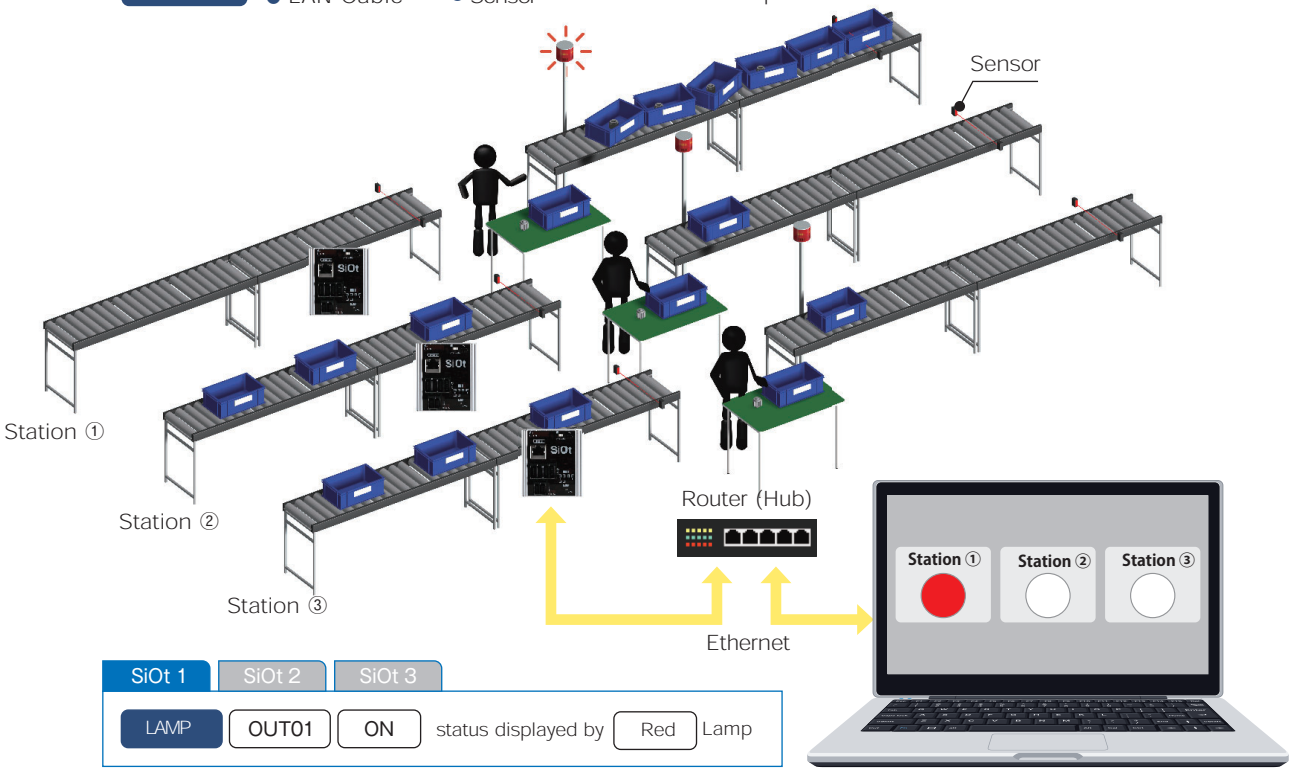


SiOt 1 | SiOt 2 | SiOt 3

LAMP	FLAG01	ON	status displayed by	Red	Lamp

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

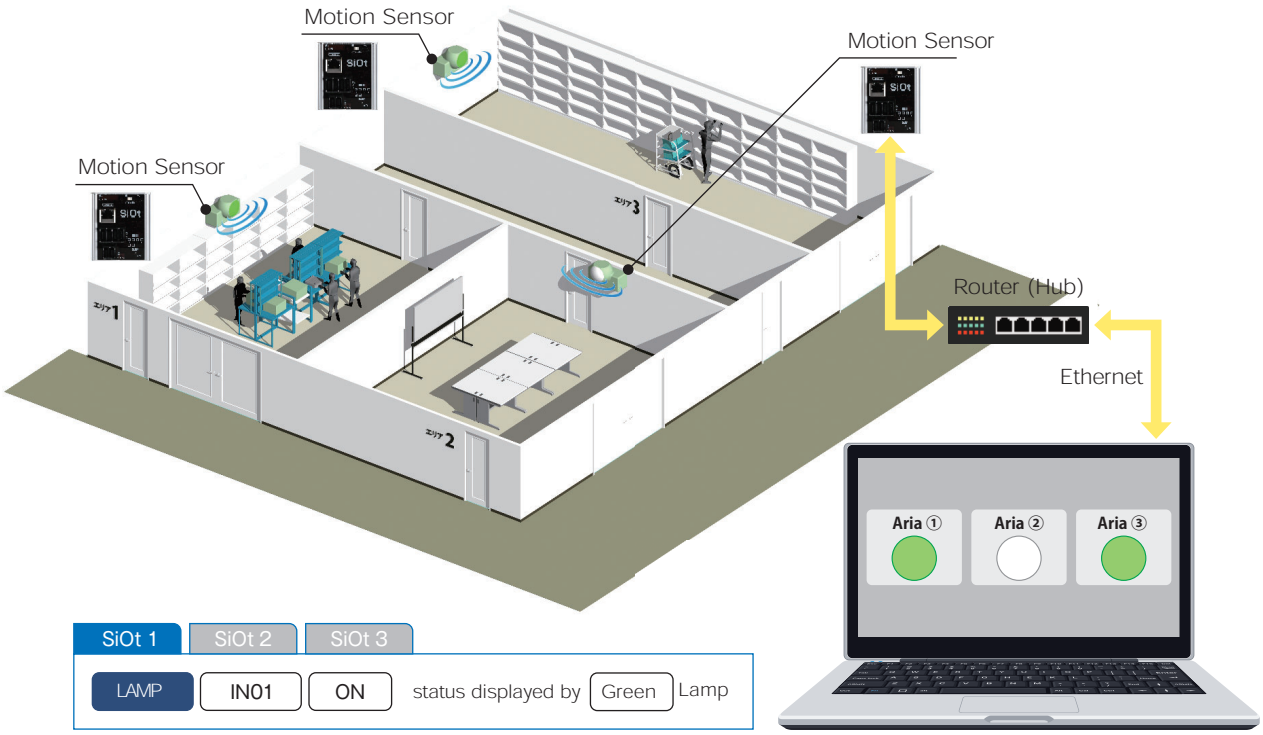
You need
- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Sensor
- Router ※Not required when connecting SiOt directly to a PC.
- Lamp



SiOt 1	SiOt 2	SiOt 3				
LAMP	OUT01	ON	status displayed by	Red	Lamp	

34 Display the status of area whether there are operators.

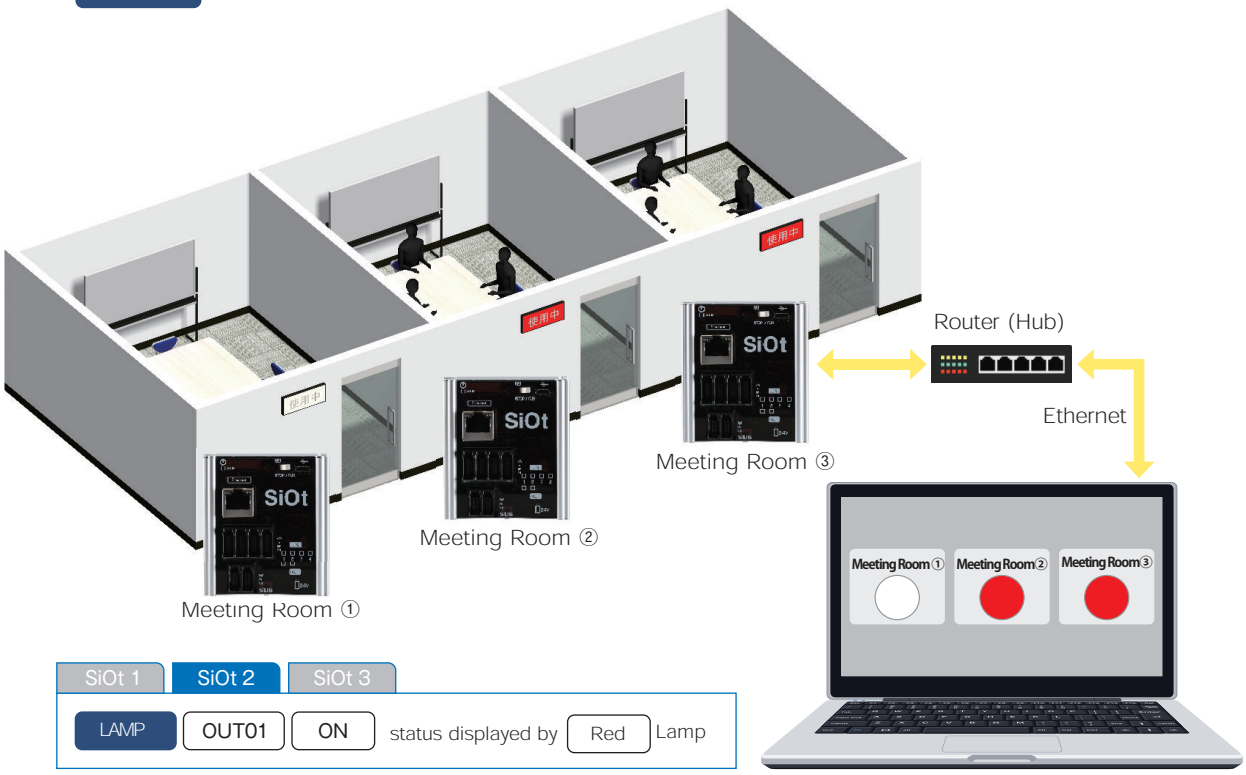
You need
- SiOt
- LAN Cable
- PC(IoTProgrammer)
- Sensor
- Router Not required when connecting SiOt directly to a PC.



SiOt 1	SiOt 2	SiOt 3				
LAMP	IN01	ON	status displayed by	Green	Lamp	

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

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

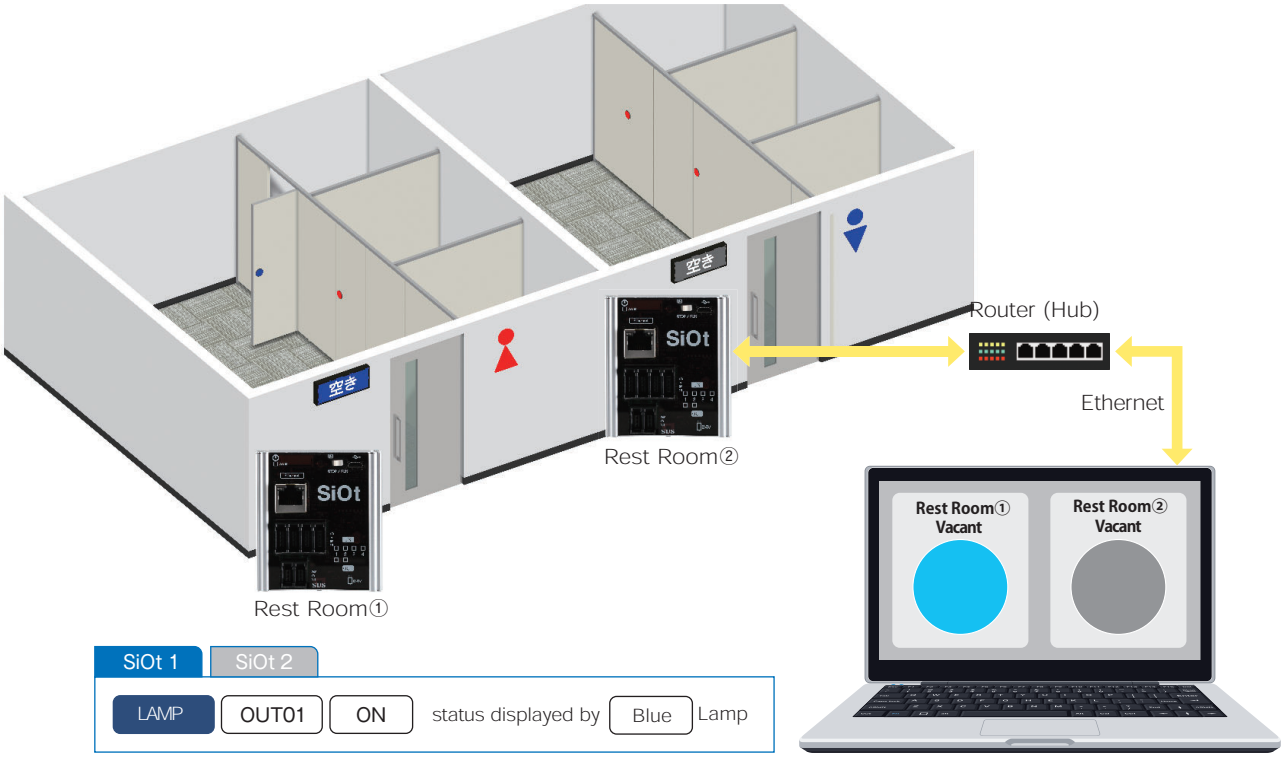


SiOt 1 | SiOt 2 | SiOt 3

LAMP	OUT01	ON	status displayed by	Red	Lamp

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

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



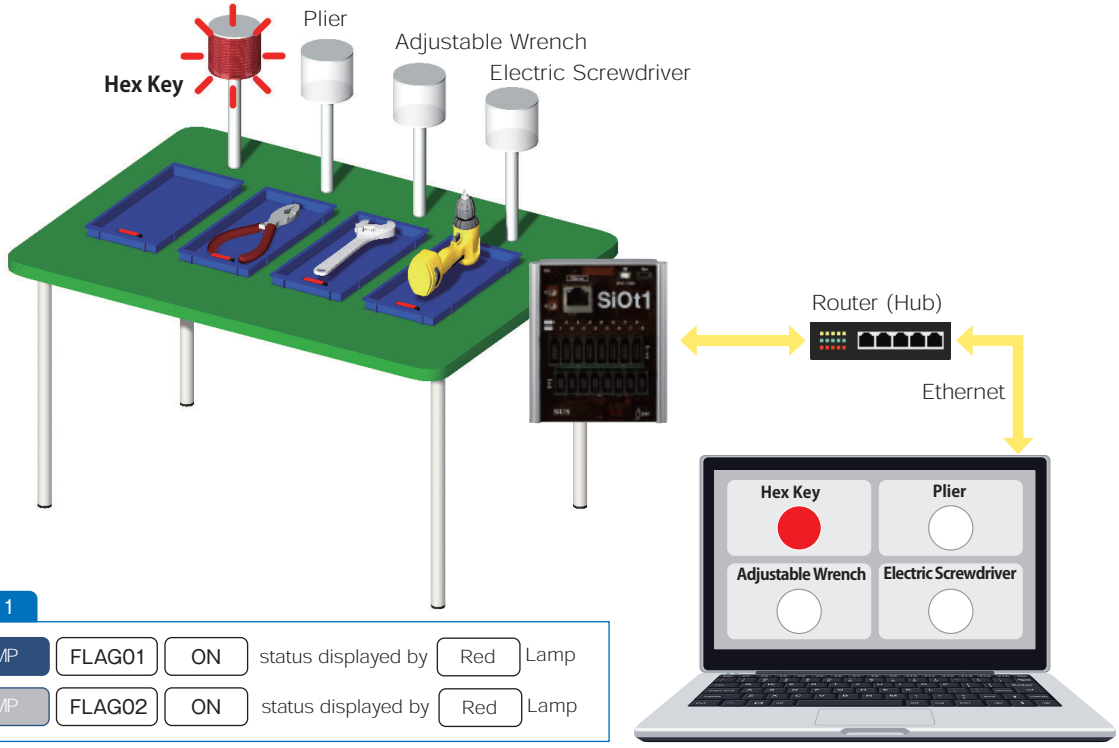
SiOt 1 | SiOt 2

LAMP	OUT01	ON	status displayed by	Blue	Lamp

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

You need

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



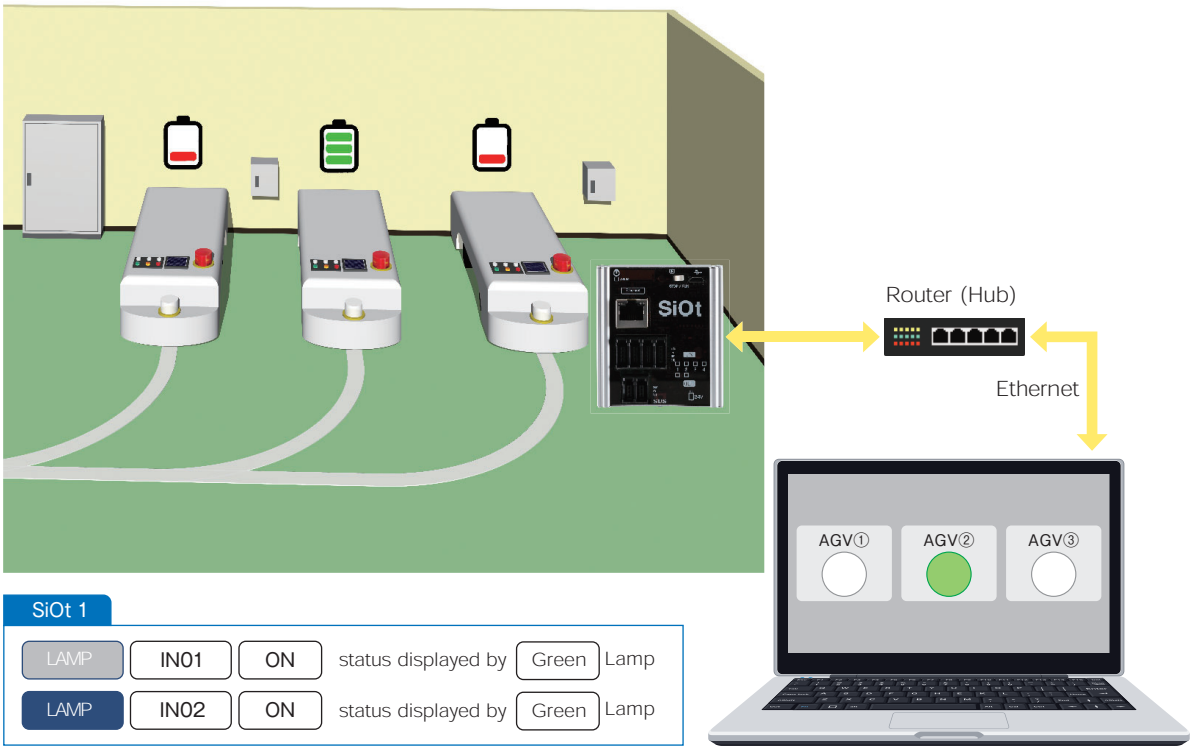
SiOt 1

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.



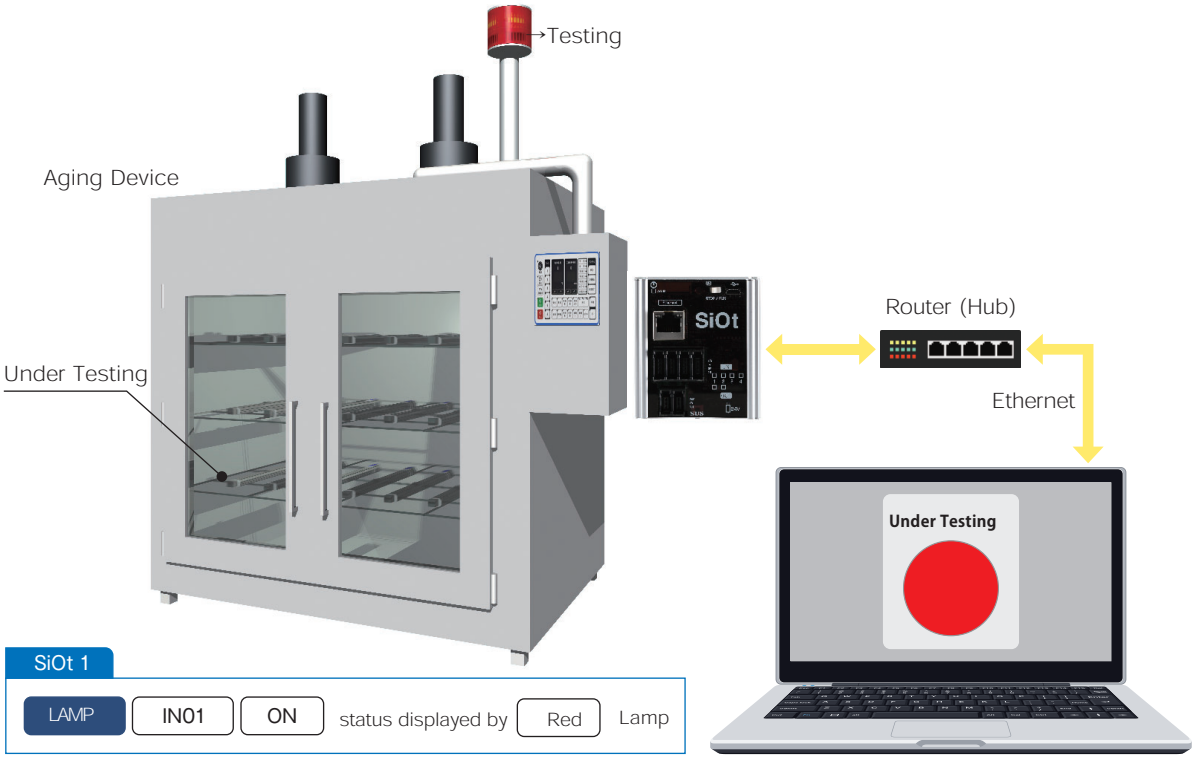
SiOt 1

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

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

You need

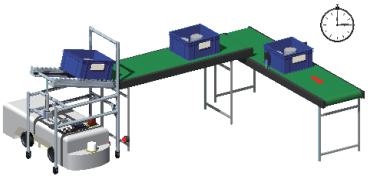
- SiOt
- LAN Cable
- PC(IoTProgrammer
- Router ※Not reqequired when connecting SiOt directly to a PC.
- Cable for equipment connection



SiOt 1

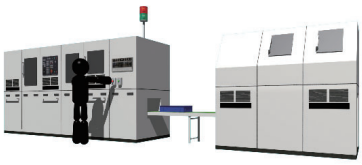
LAMP	IN01	ON	status displayed by	Red	Lamp

40 Saving logfile of the time when workpieces have passed.



P.38

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



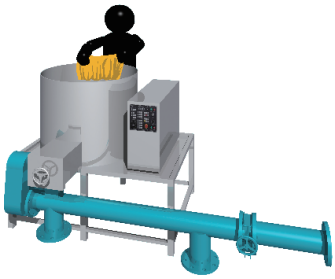
P.38

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



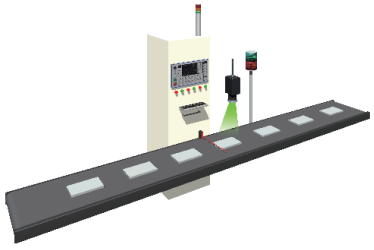
P.39

43 Saving logfile of the time when operators supply materials.



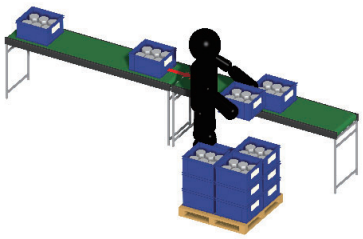
P.39

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.



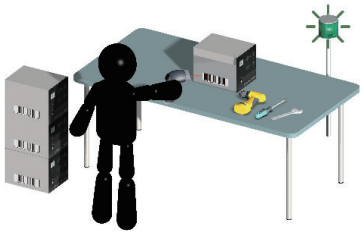
P.41

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



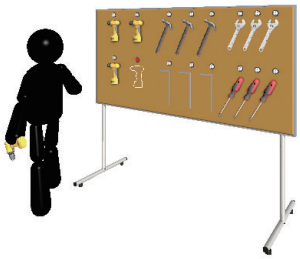
P.42

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

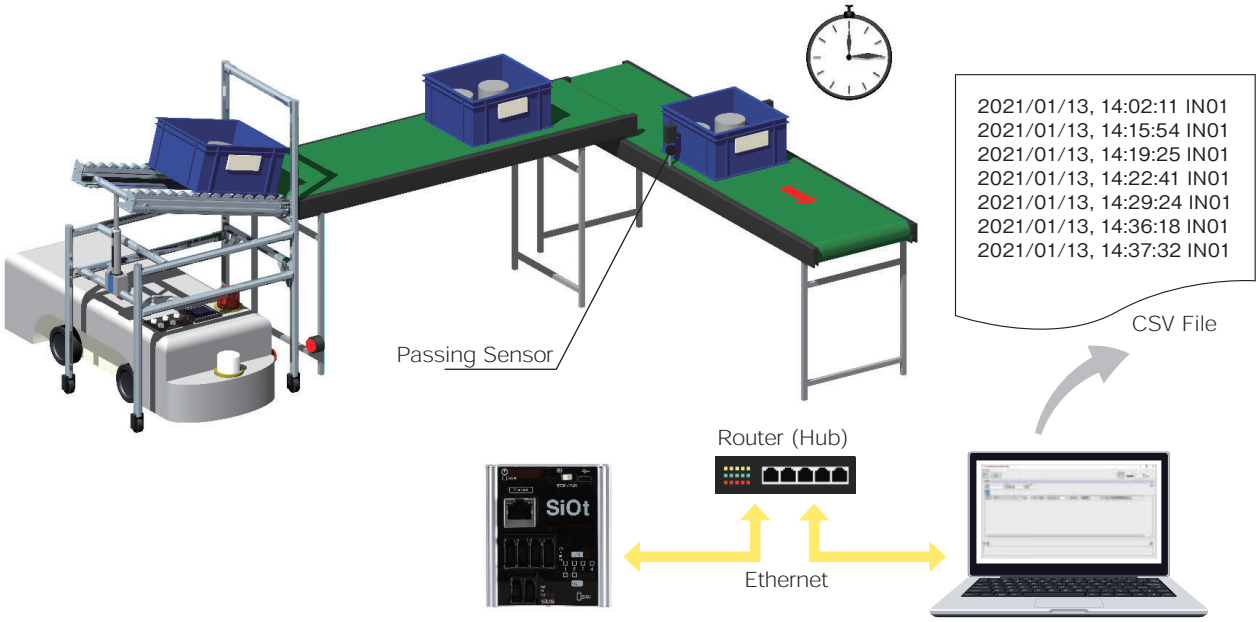
51 Saving logfile of errors during aging.



P.43

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.

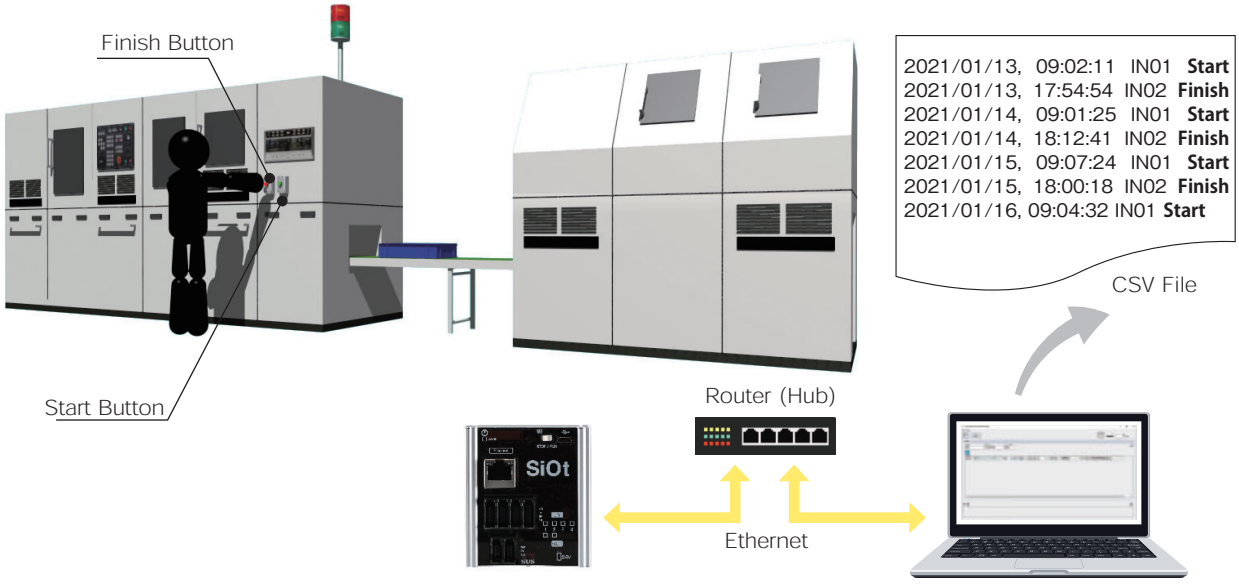


SiOt 1

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



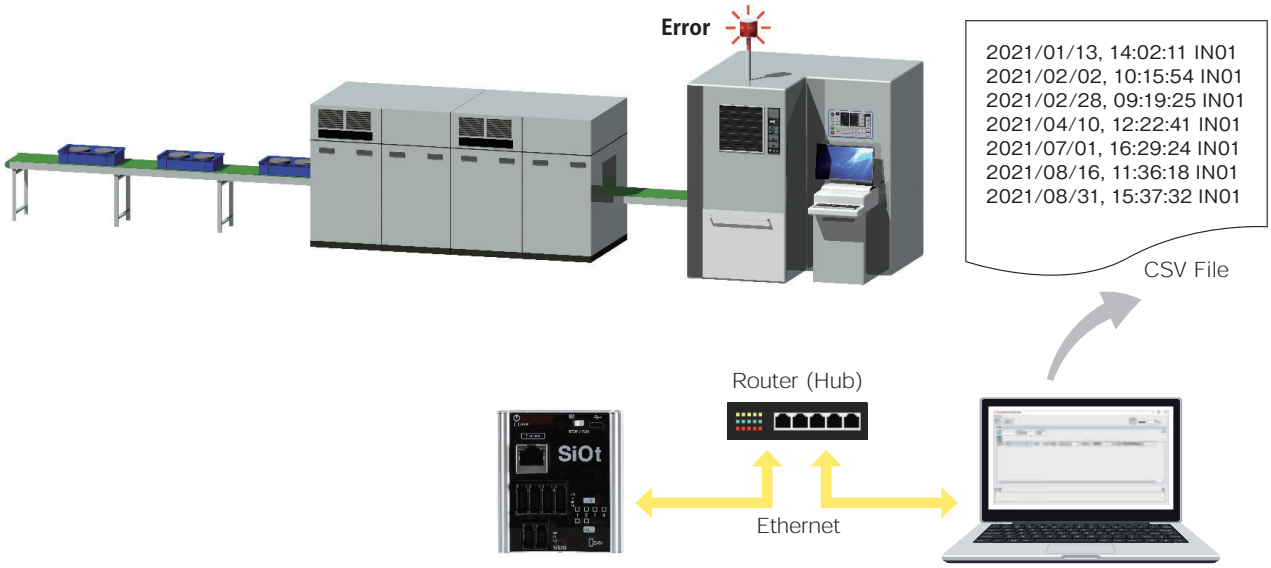
SiOt 1

Log	IN01	ON	log output to	C:¥log.csv
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(IoTProgrammer)
- Router ※Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



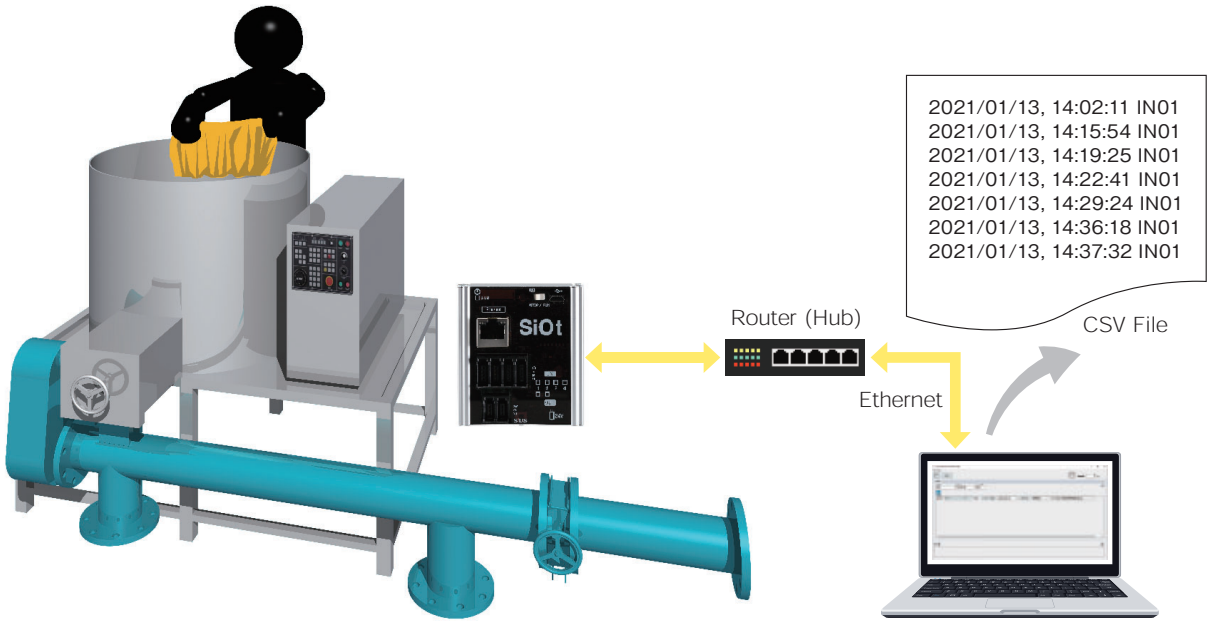
SiOt 1

Log	IN01	ON	log output to	C:¥log.csv

43 Saving logfile of the time when operators supply materials.

You need

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

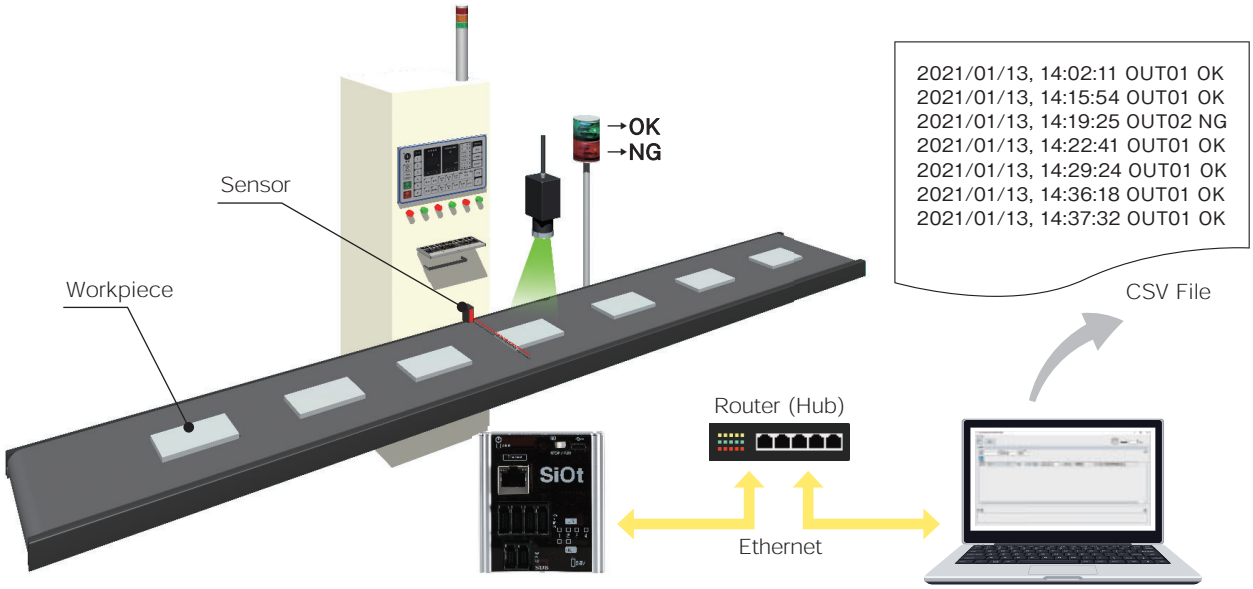


SiOt 1

Log	IN01	ON	log output to	C:¥log.csv

44 Saving logfile of results from the inspection.

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

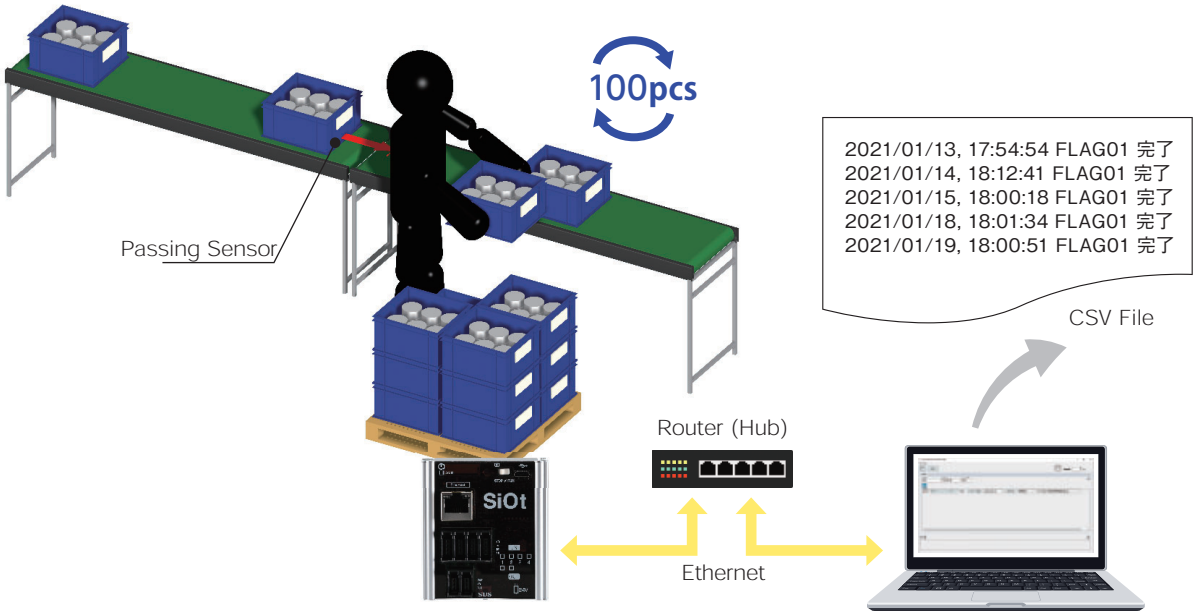


SiOt 1

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



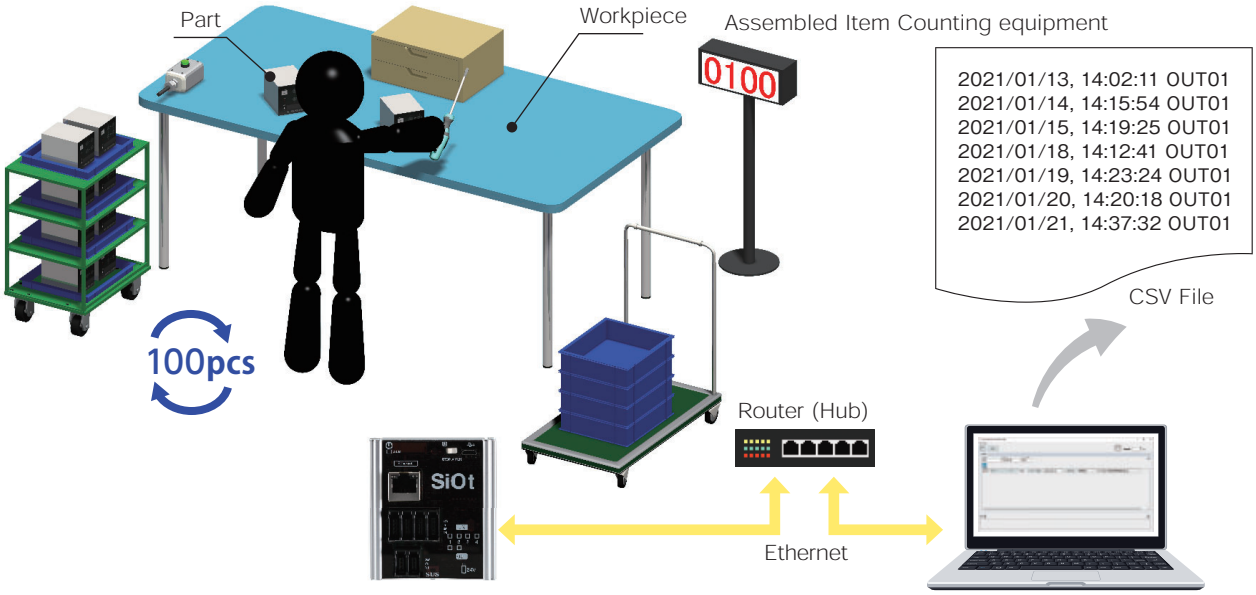
SiOt 1

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

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

You need

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



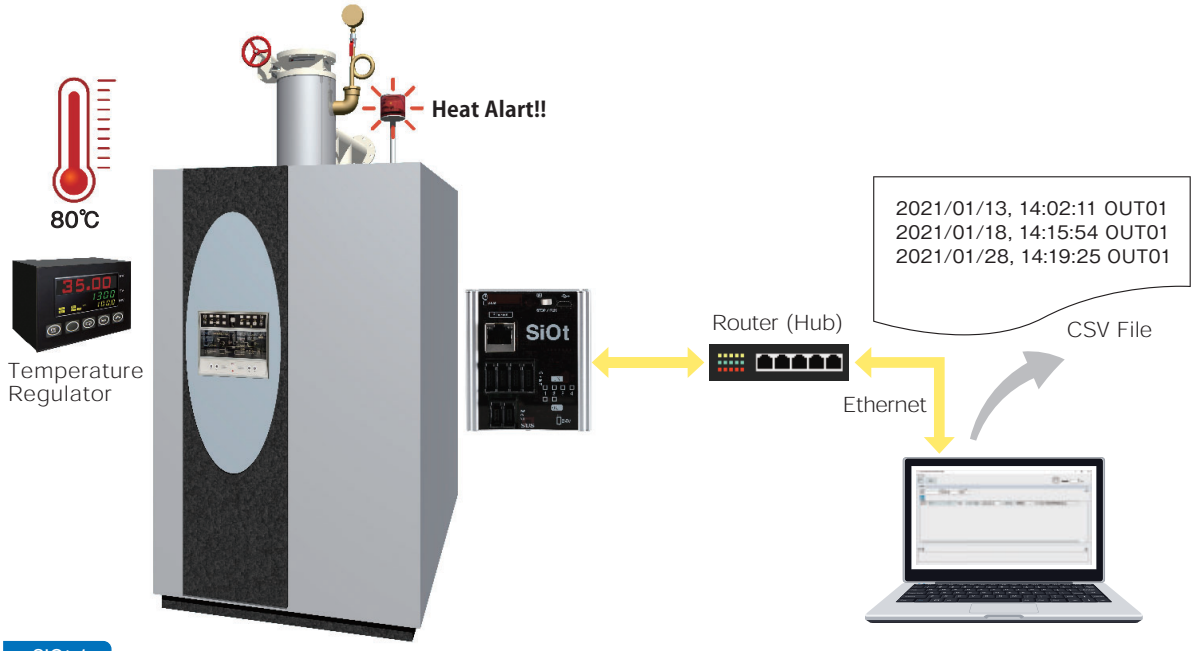
SiOt 1

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(IoTProgrammer)
- Router ※Not required when connecting SiOt directly to a PC.
- Temperature Regulator (+thermocouple)
- Lamp

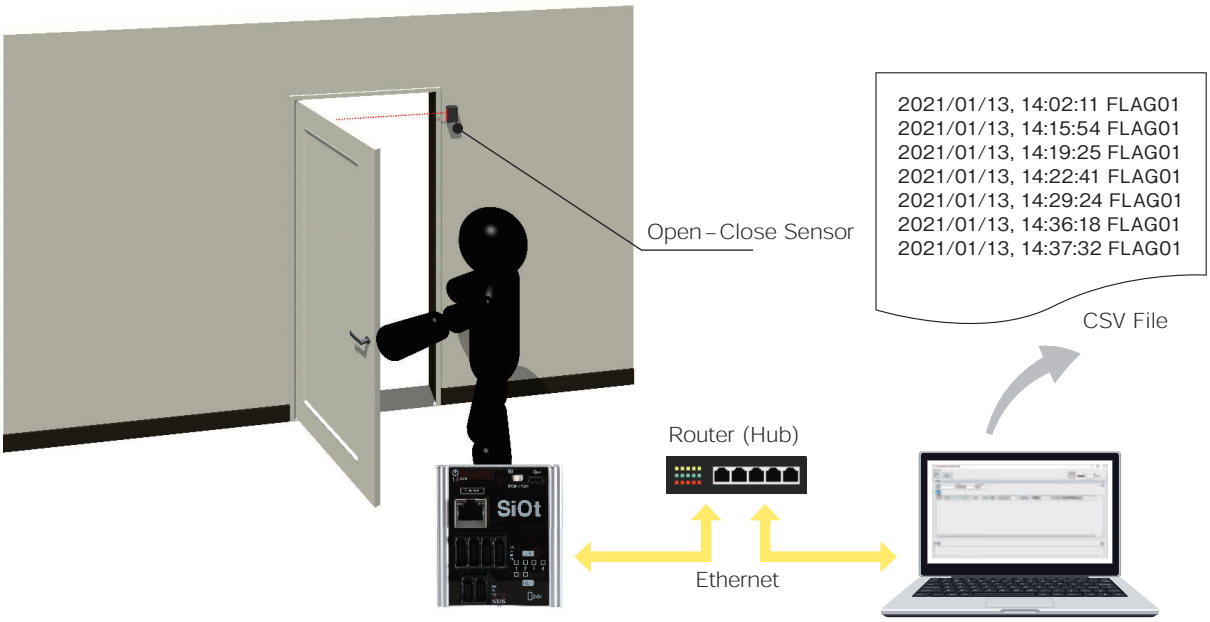


SiOt 1

Log	OUT01	ON	log output to	C:¥log.csv

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

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

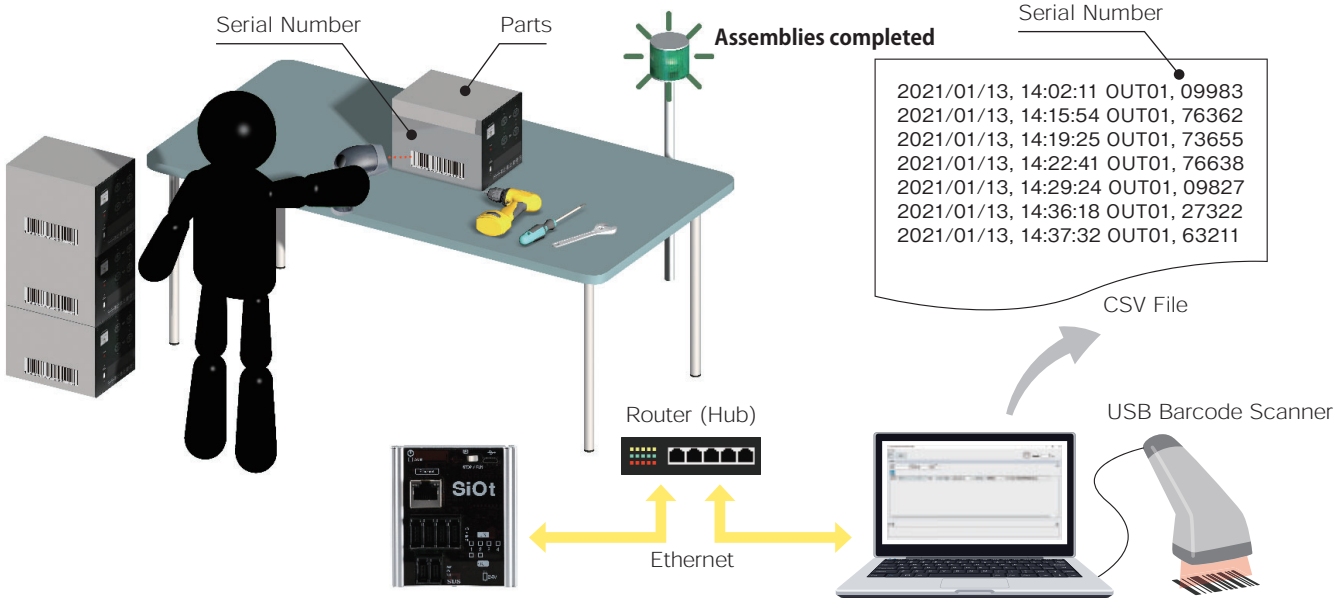


SiOt 1

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 ※Not required when connecting SiOt directly to a PC.
- Lamp



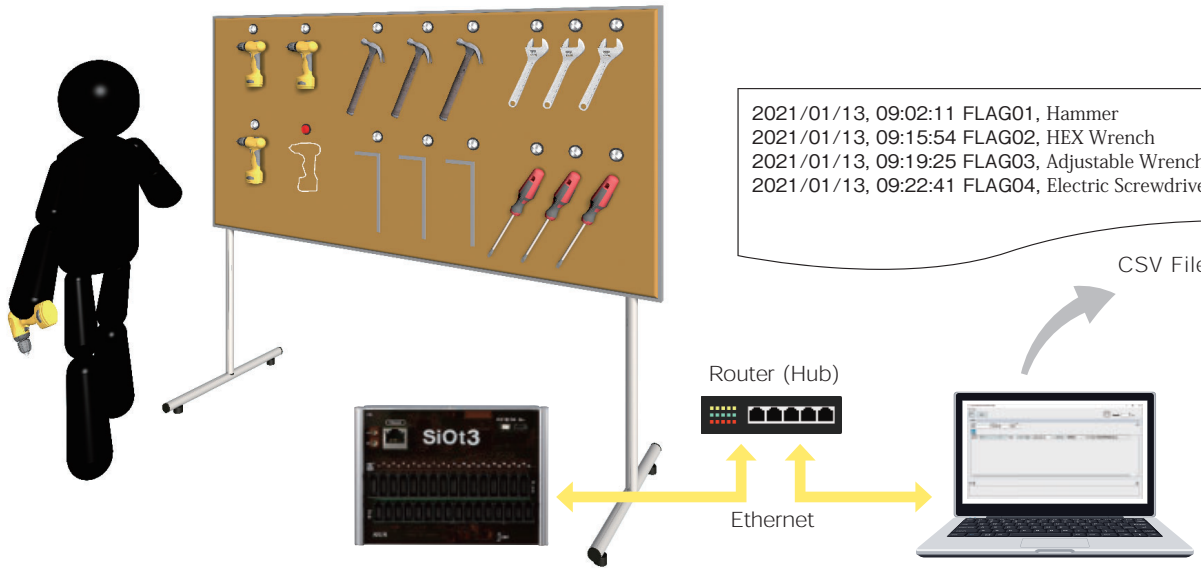
SiOt 1

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



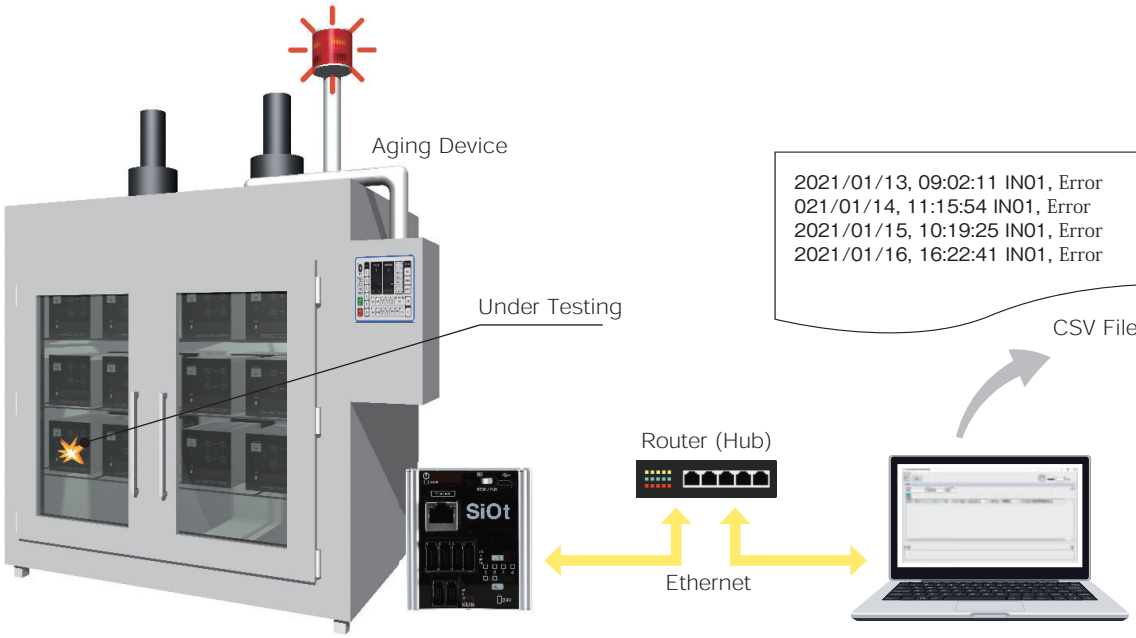
SiOt 1

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



SiOt 1

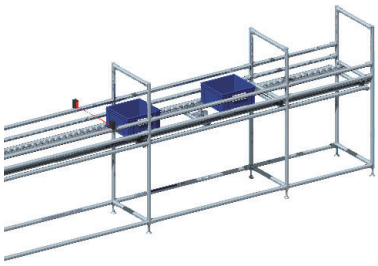
Log	IN01	ON	log output to	C:¥log.csv

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



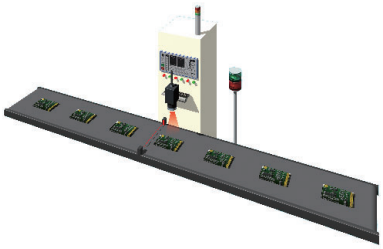
P.45

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



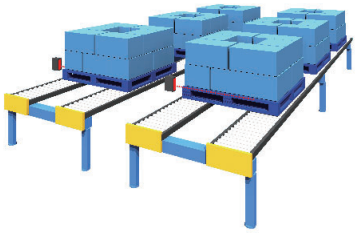
P.45

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



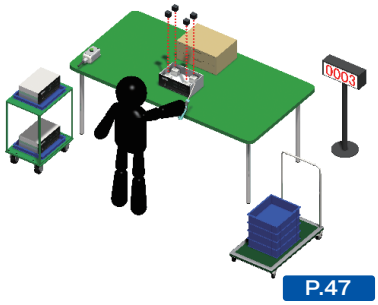
P.46

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



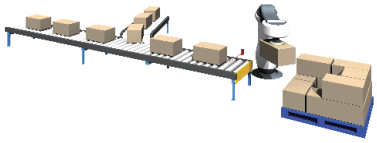
P.46

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



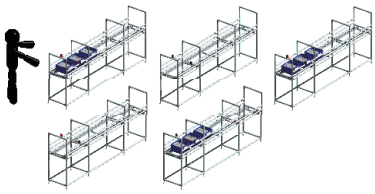
P.47

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



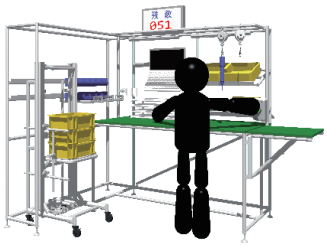
P.47

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



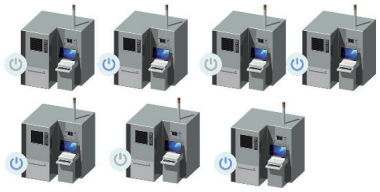
P.48

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



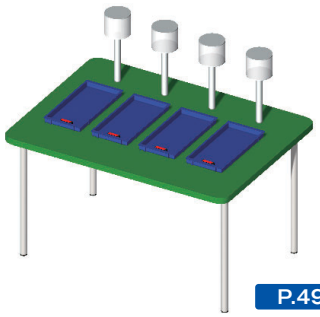
P.48

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



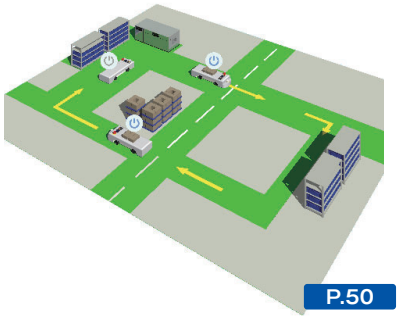
P.49

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.

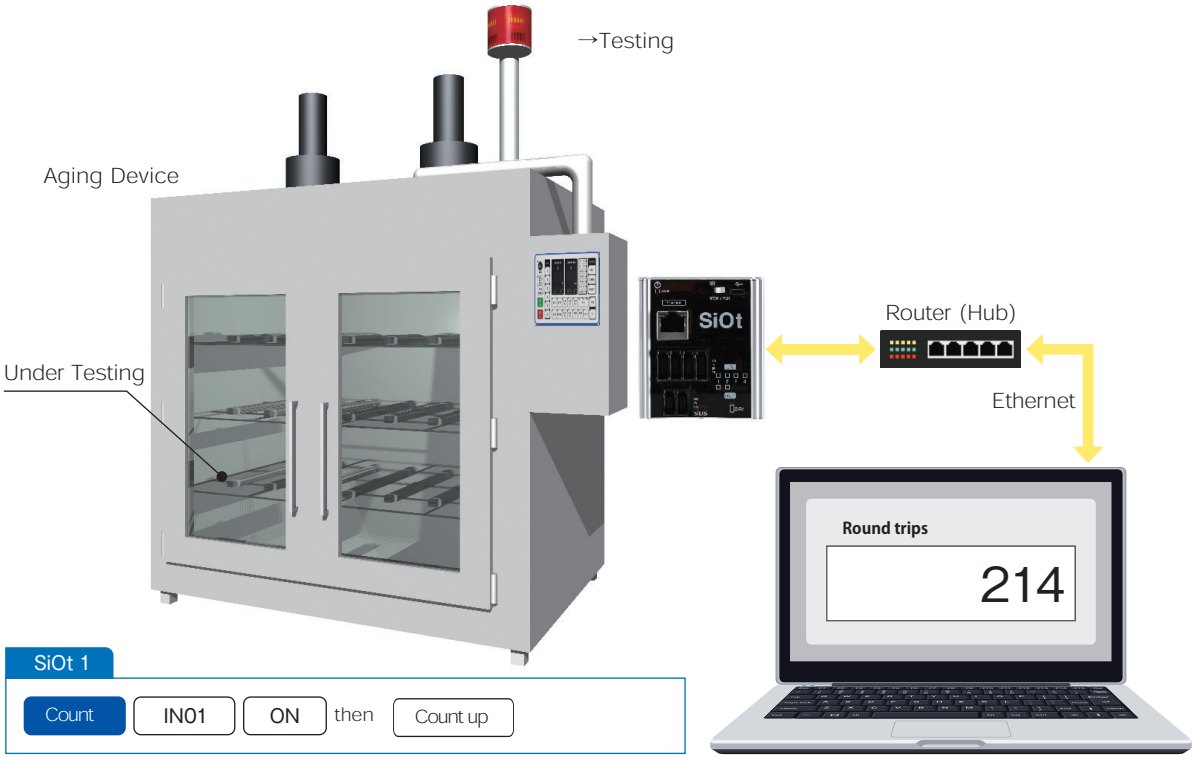


P.50

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

You need

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



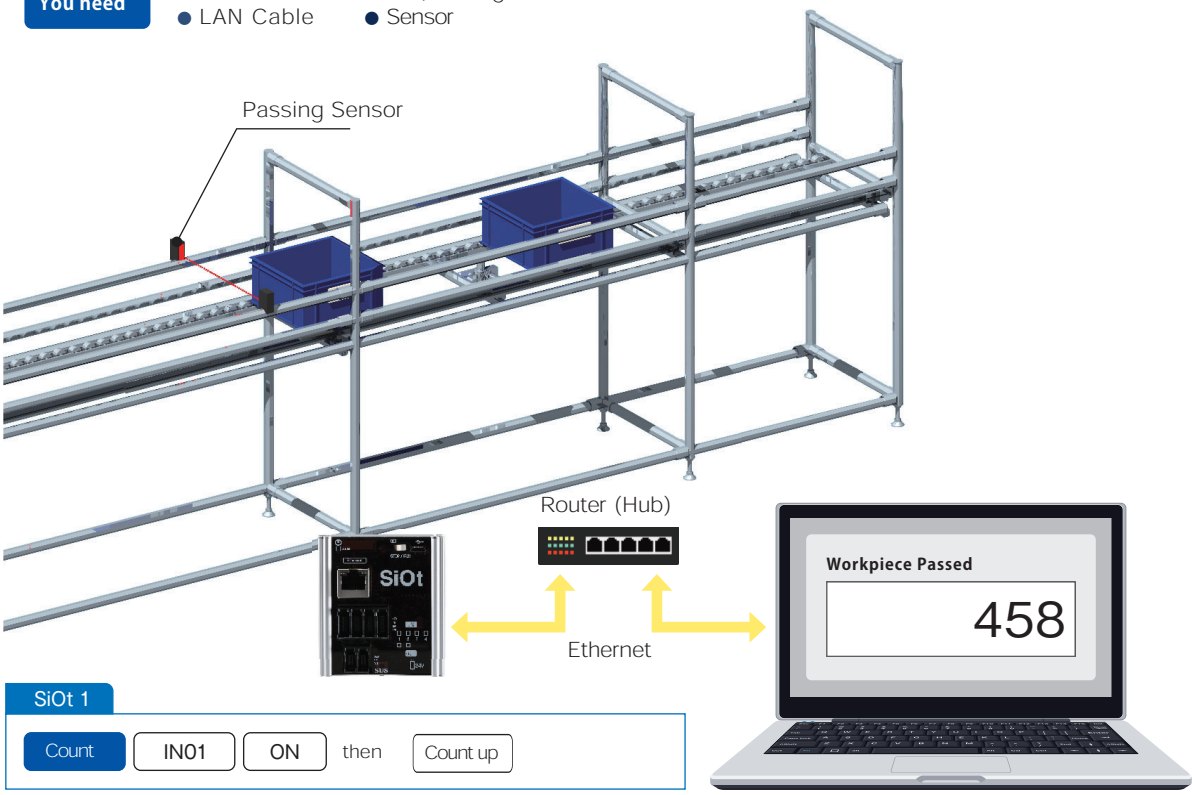
SiOt 1

Count | IN01 | ON | then | Count up

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

You need

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



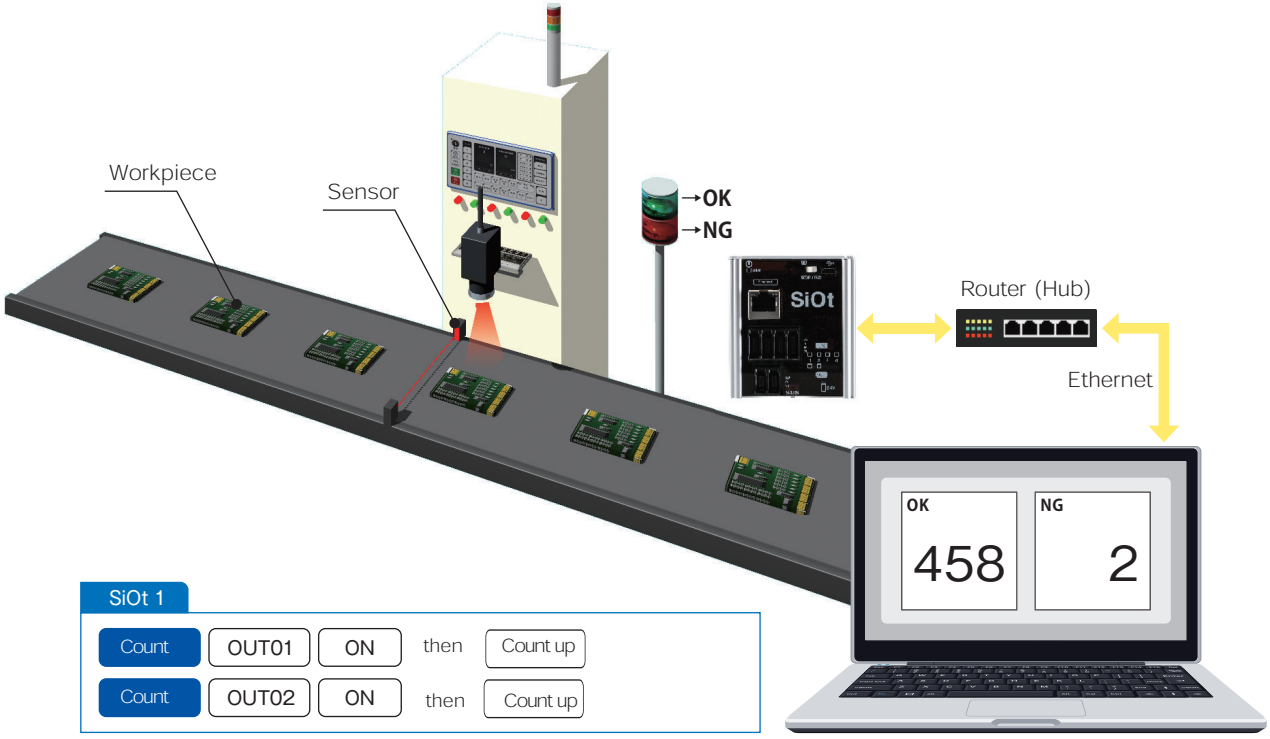
SiOt 1

Count | IN01 | ON | then | Count up

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

You need

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



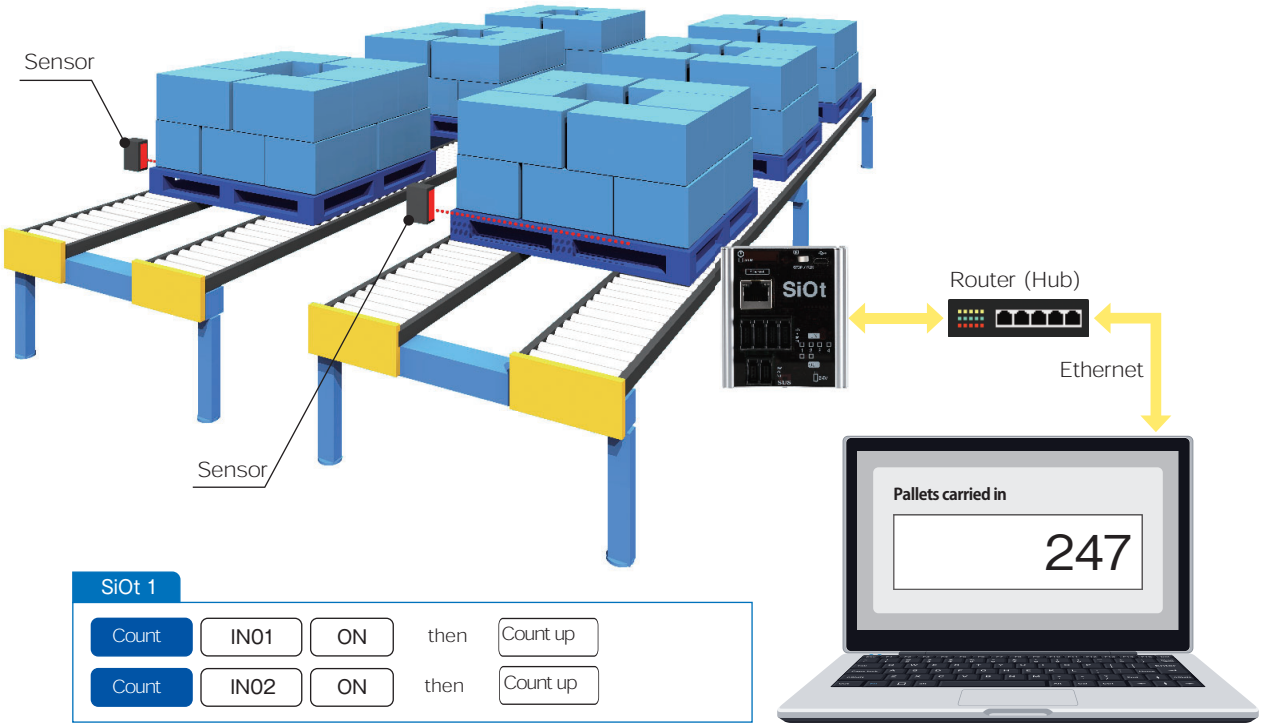
SiOt 1

Count	OUT01	ON	then	Count up
Count	OUT02	ON	then	Count up

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

You need

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



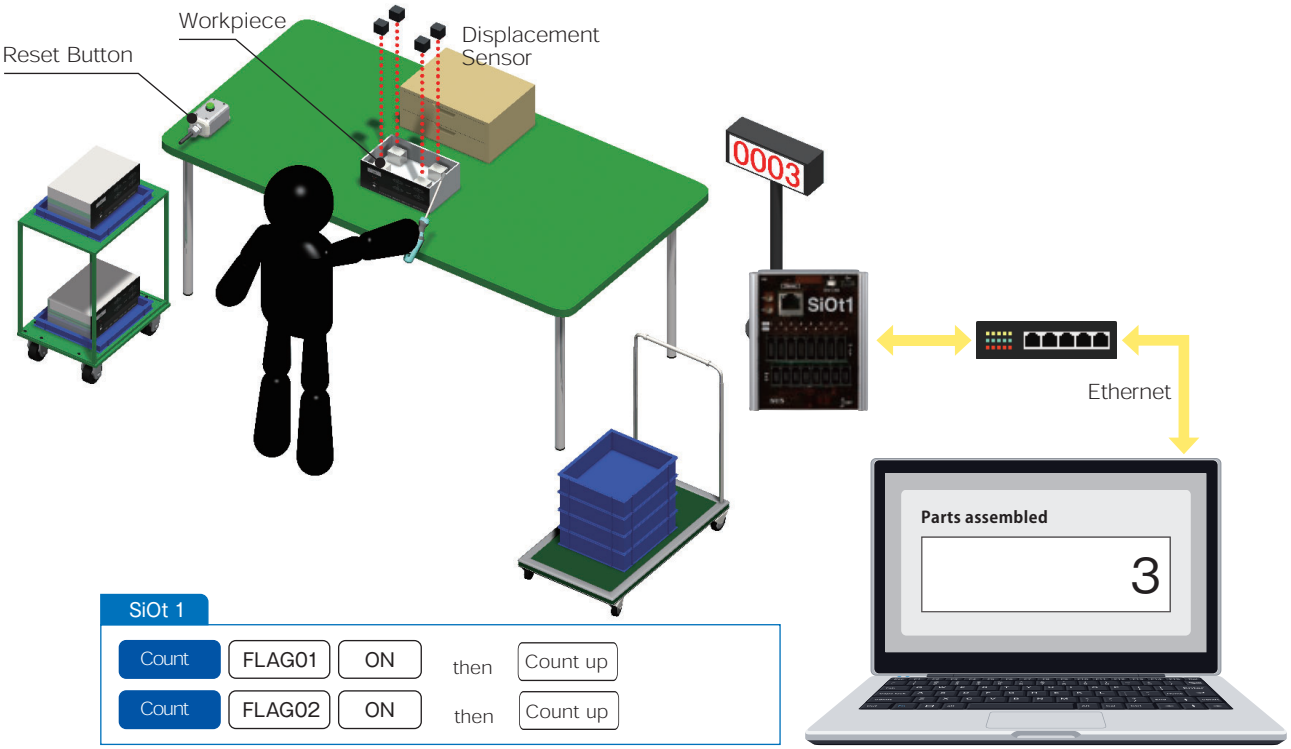
SiOt 1

Count	IN01	ON	then	Count up
Count	IN02	ON	then	Count up

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

You need

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



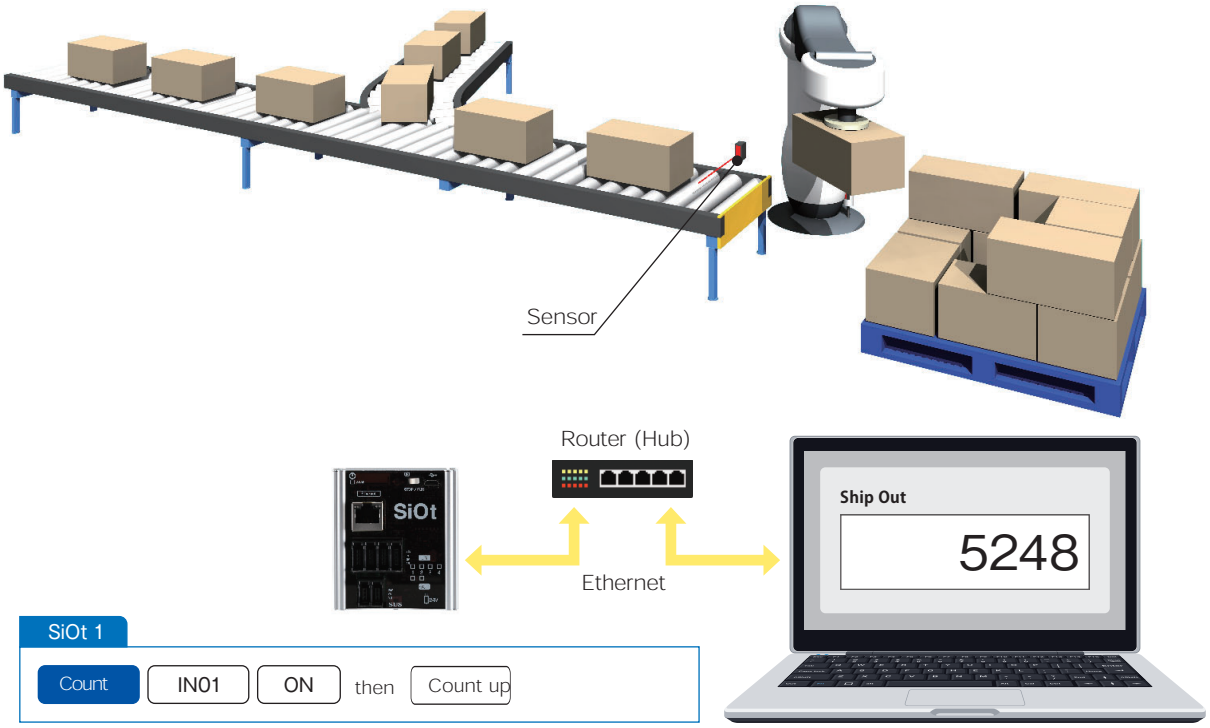
SiOt 1

Count	FLAG01	ON	then	Count up
Count	FLAG02	ON	then	Count up

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

You need

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



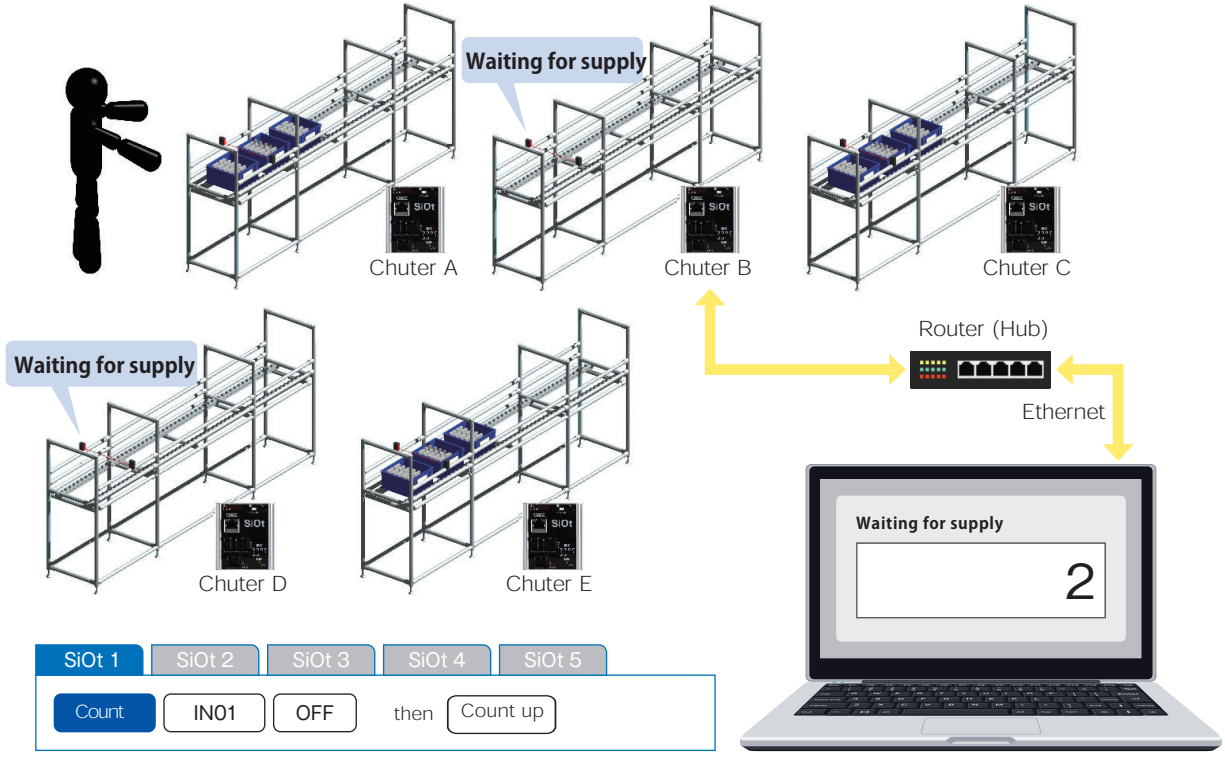
SiOt 1

Count	IN01	ON	then	Count up

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

You need

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



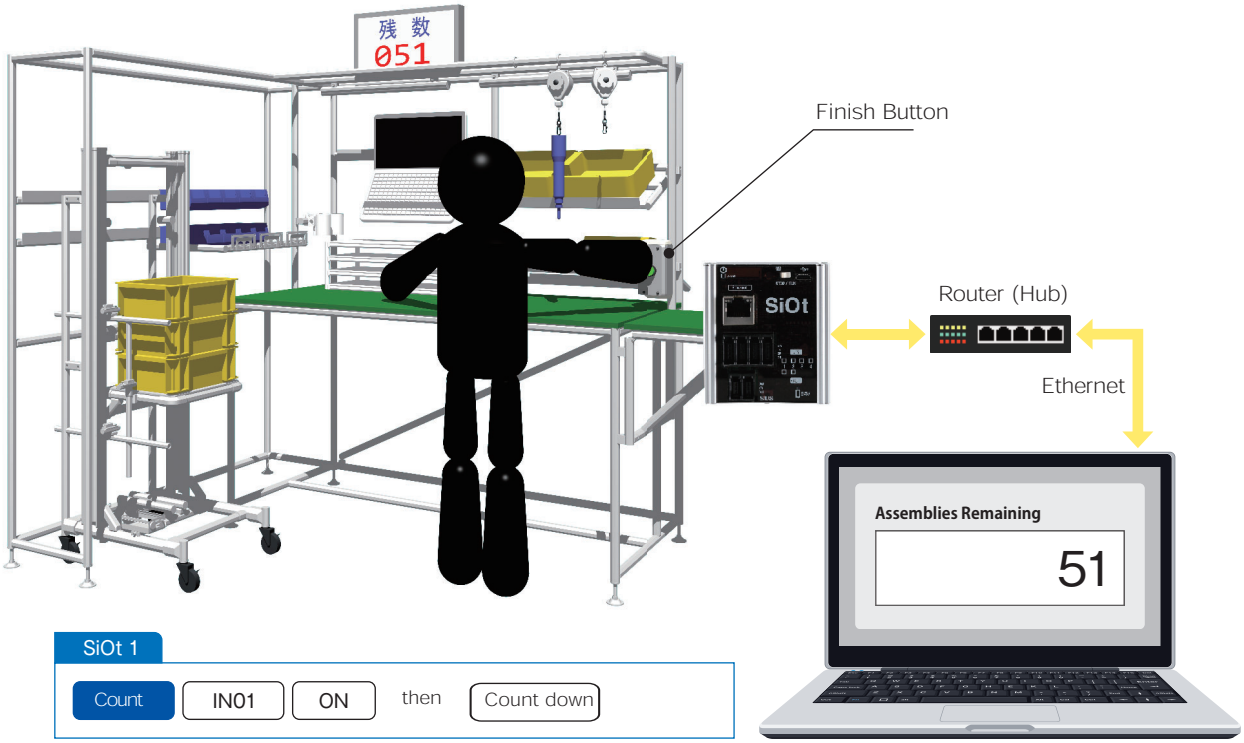
SiOt 1	SiOt 2	SiOt 3	SiOt 4	SiOt 5

Count | IN01 | OFF | then | Count up

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

You need

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



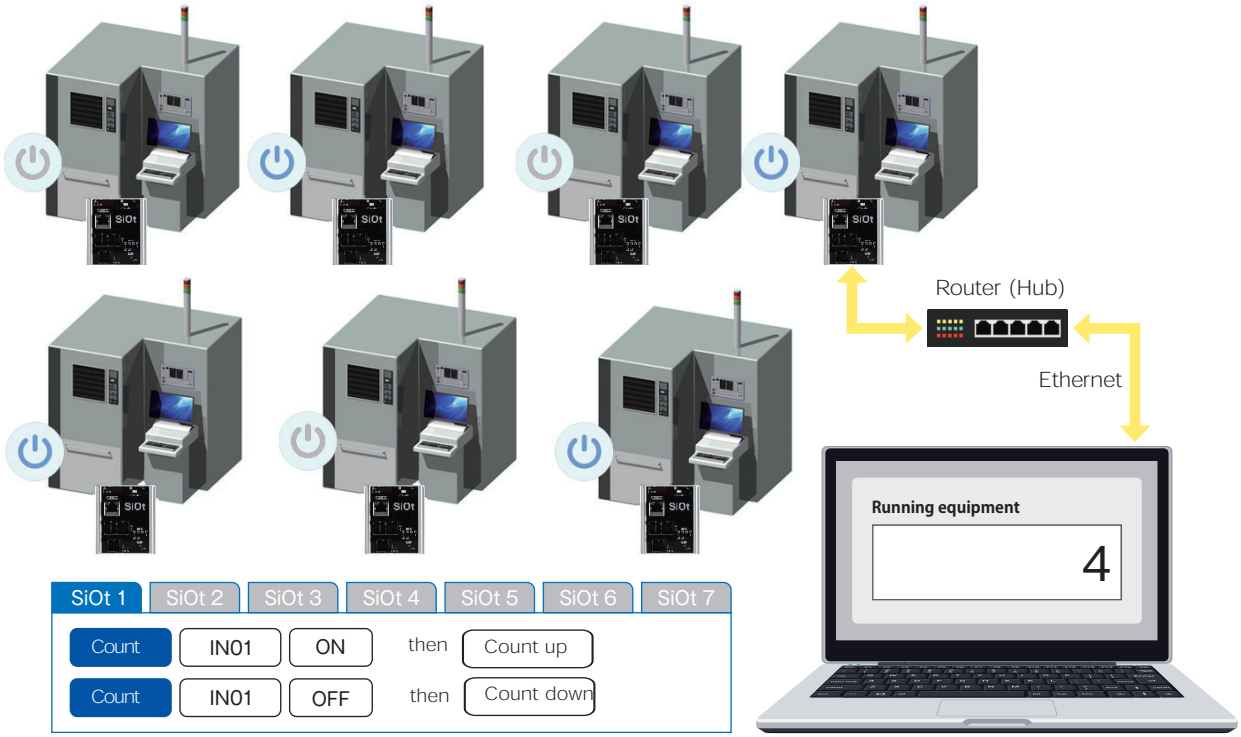
SiOt 1

Count | IN01 | ON | then | Count down

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

You need

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



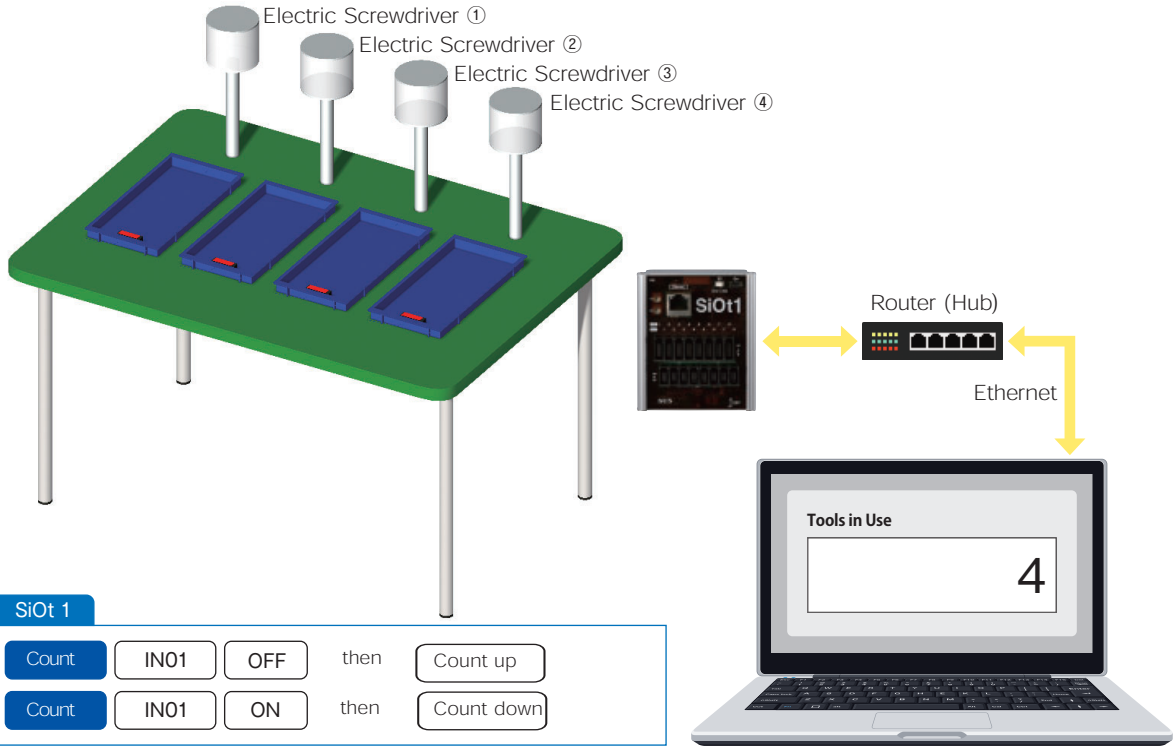
SiOt 1	SiOt 2	SiOt 3	SiOt 4	SiOt 5	SiOt 6	SiOt 7

Count	IN01	ON	then	Count up
Count	IN01	OFF	then	Count down

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

You need

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



SiOt 1

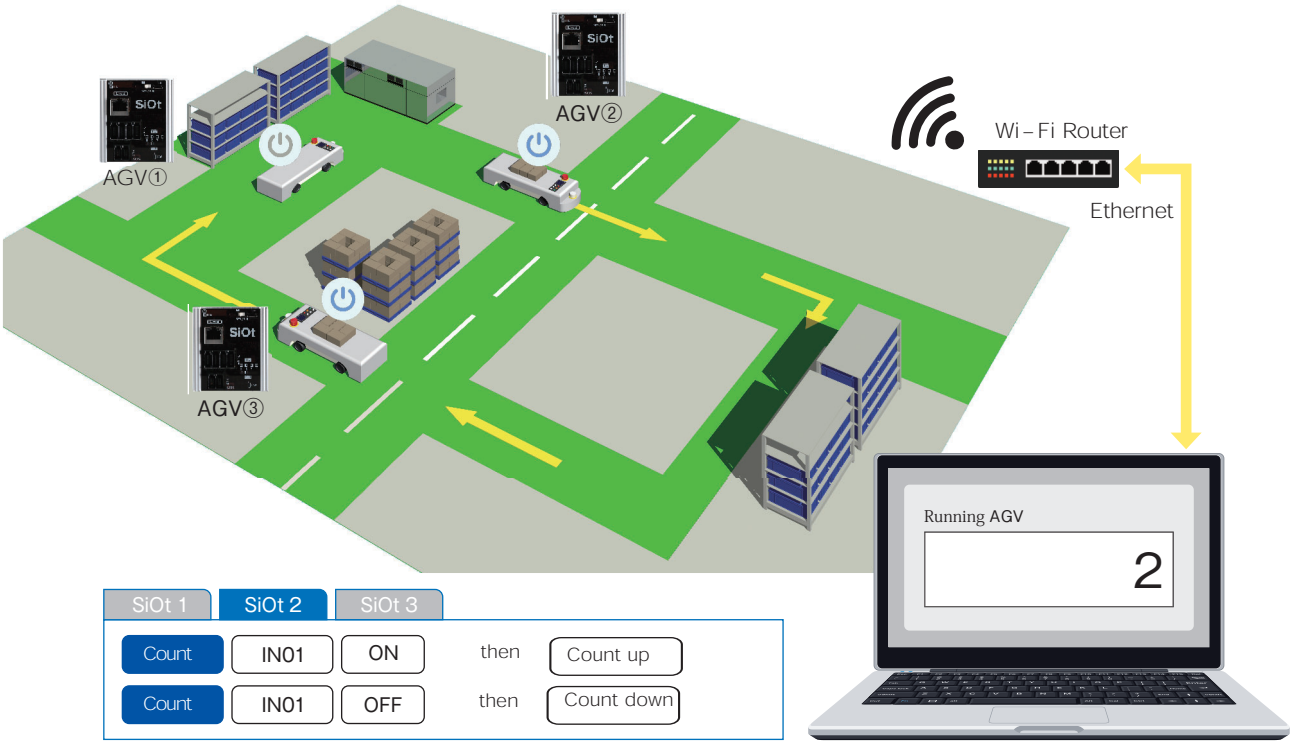
Count	IN01	OFF	then	Count up
Count	IN01	ON	then	Count down

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

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

You need

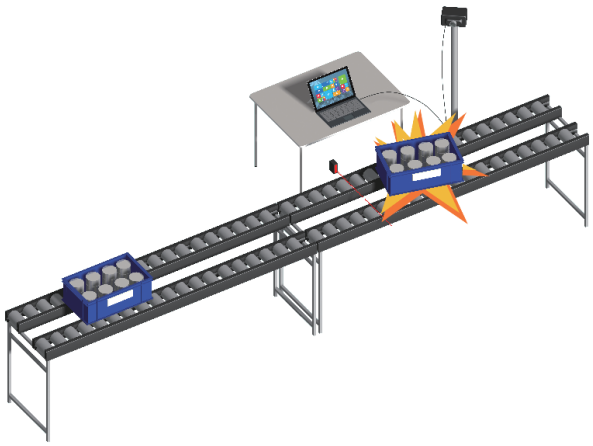
- SiOt
- Wi-Fi Repeter
- PC(IoTProgrammer)
- LAN Cable
- Router ※Not required when connecting SiOt directly to a PC.
- IO Cable for AGV



SiOt 1 | SiOt 2 | SiOt 3

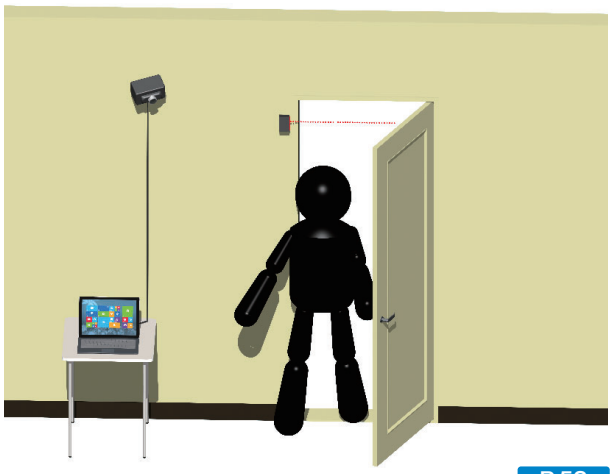
Count	IN01	ON	then	Count up
Count	IN01	OFF	then	Count down

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.



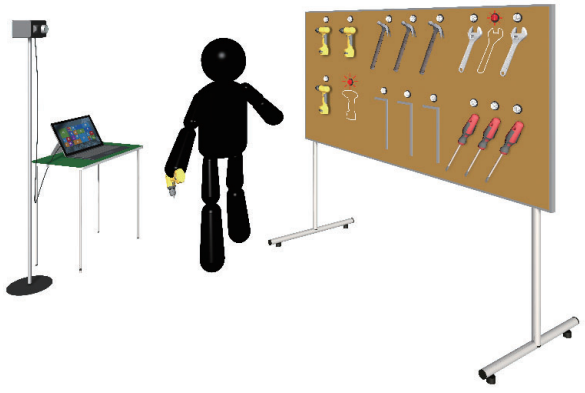
P.53

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.

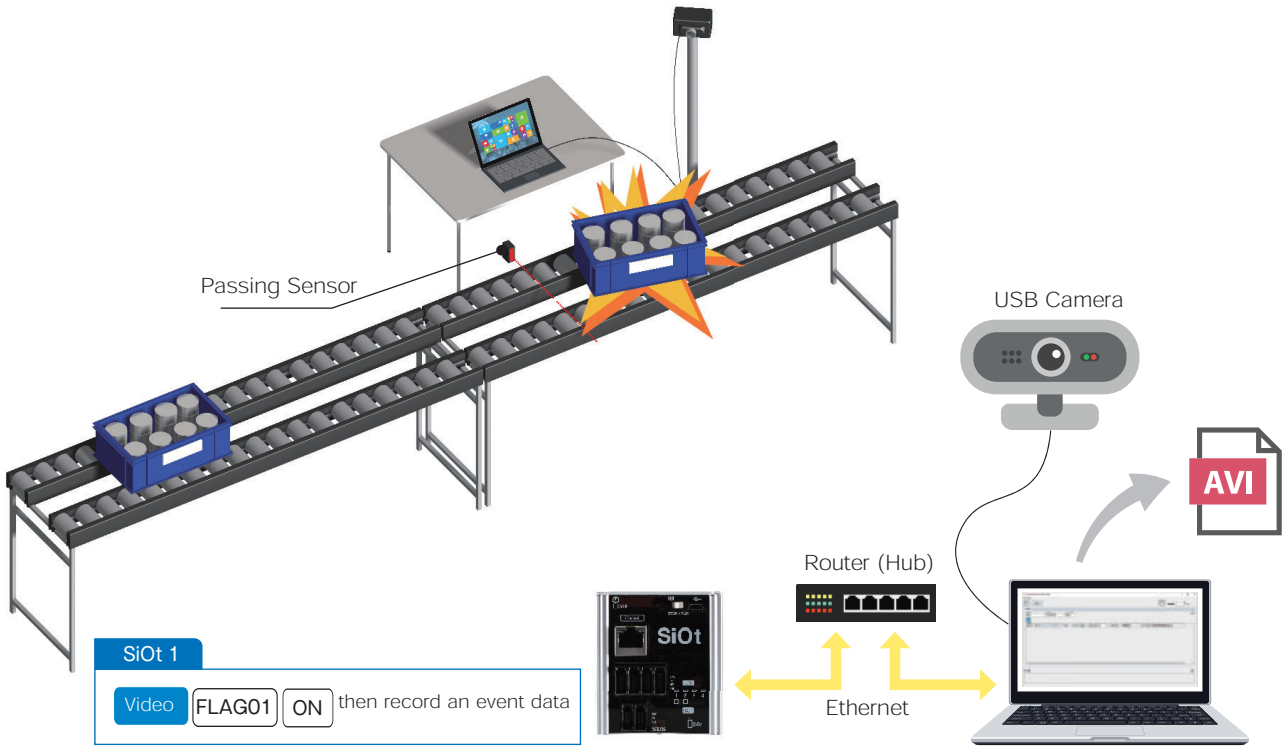


P.54

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

You need

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



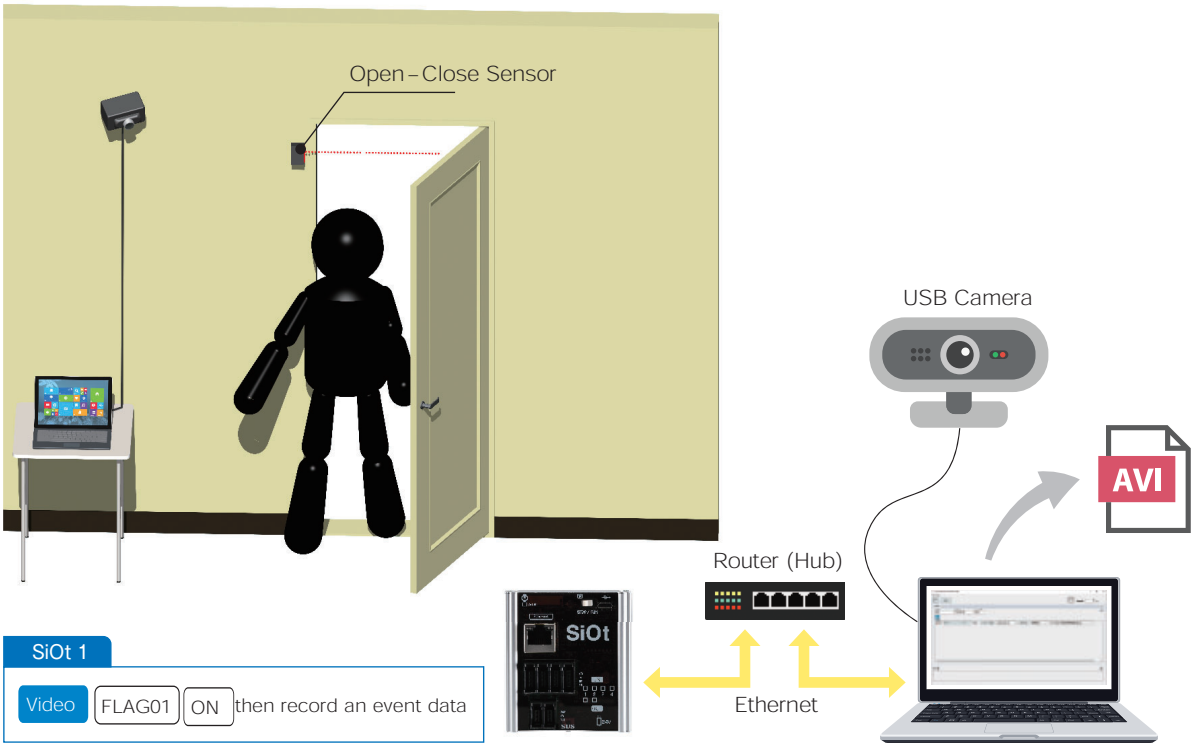
SiOt 1

Video | FLAG01 | ON | then record an event data

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

You need

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



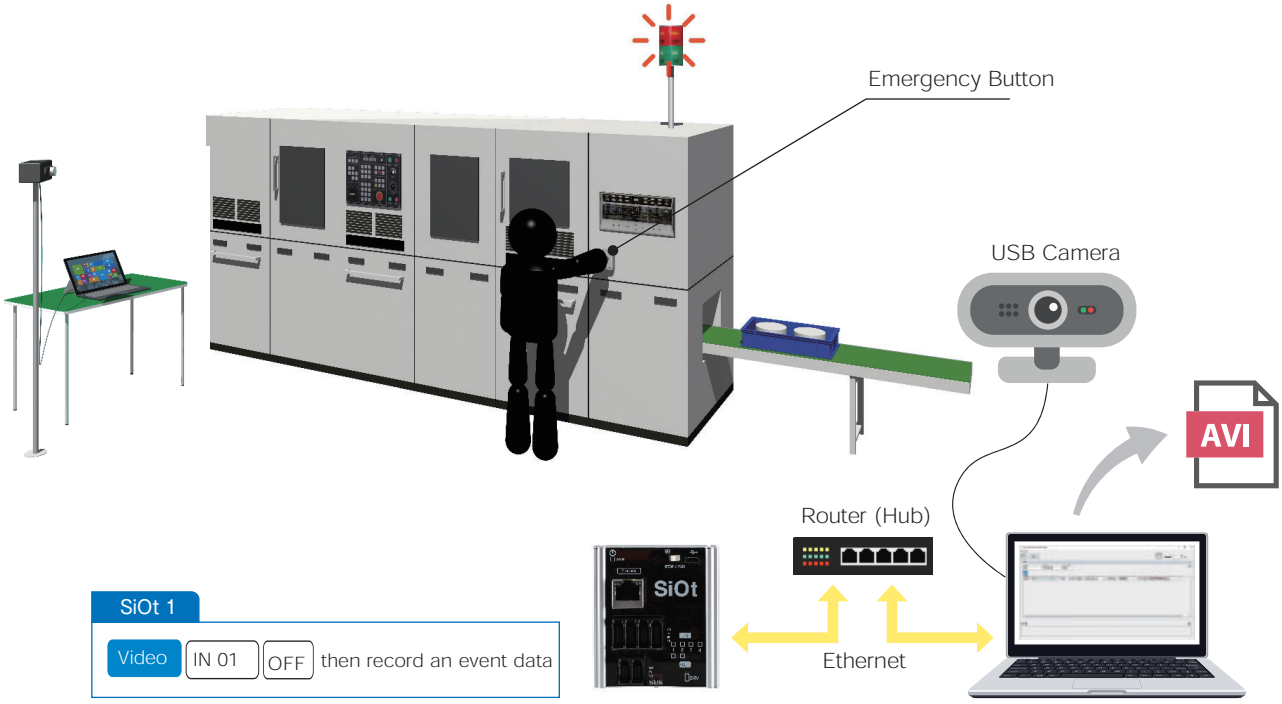
SiOt 1

Video | FLAG01 | ON | then record an event data

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

You need

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



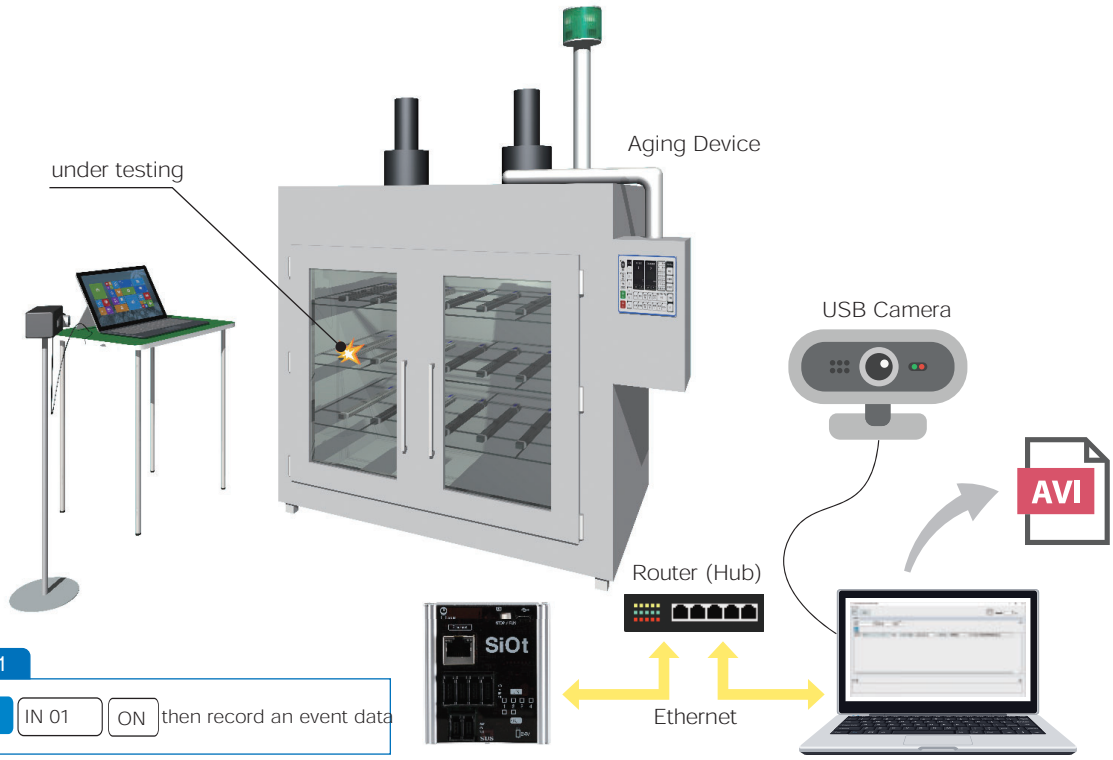
SiOt 1

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)
- Router ※Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection
- USB Camera



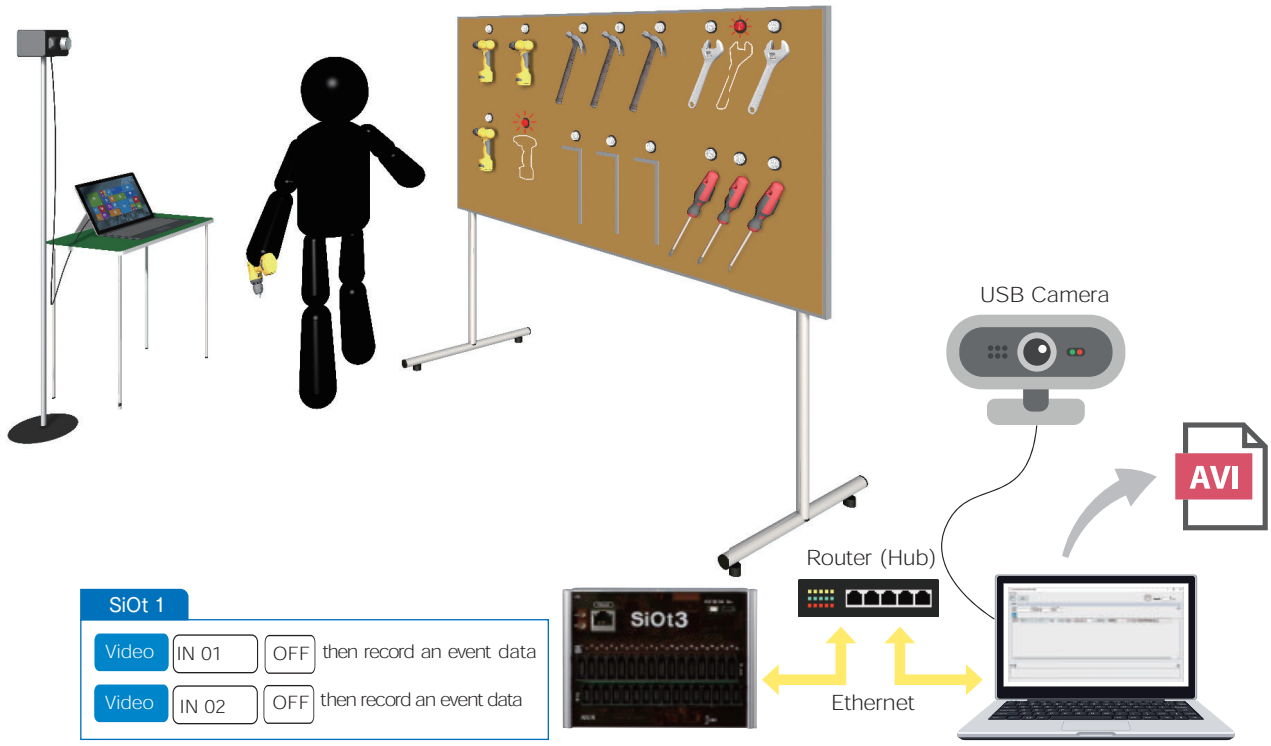
SiOt 1

Video | IN 01 | ON | then record an event data

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

You need

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



SiOt 1

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

68 Time / Record the assembly time.



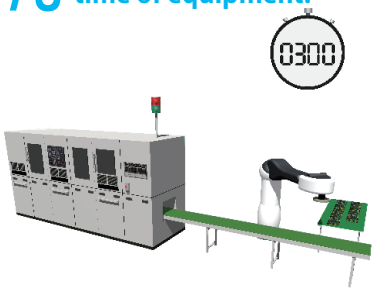
P.56

69 Time / Record the operating time.



P.56

70 Time / Record the stop time of equipment.



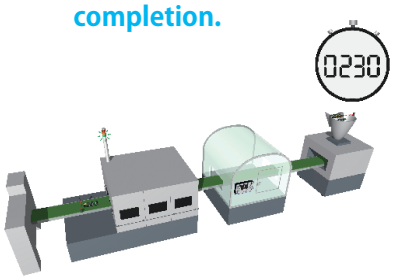
P.57

71 Time / Record the operating time of aging.



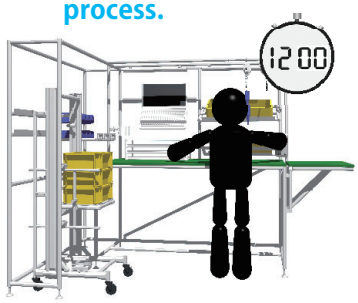
P.57

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



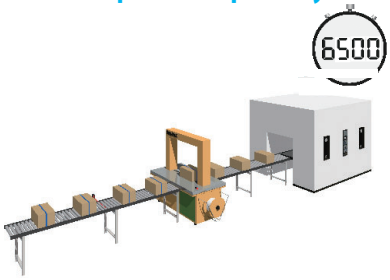
P.58

73 Compare the average assembly time for each process.



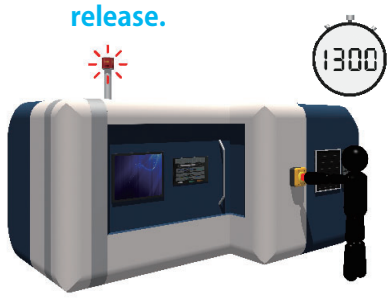
P.58

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



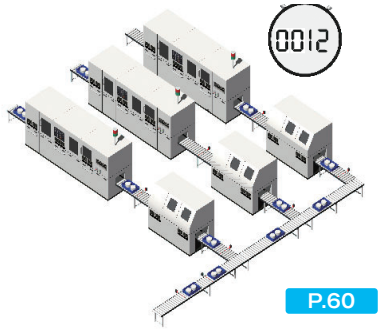
P.59

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.



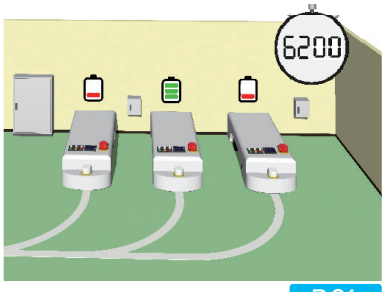
P.60

78 Time / Record the time of using meeting rooms.



P.61

79 Time how long each battery has been charged.



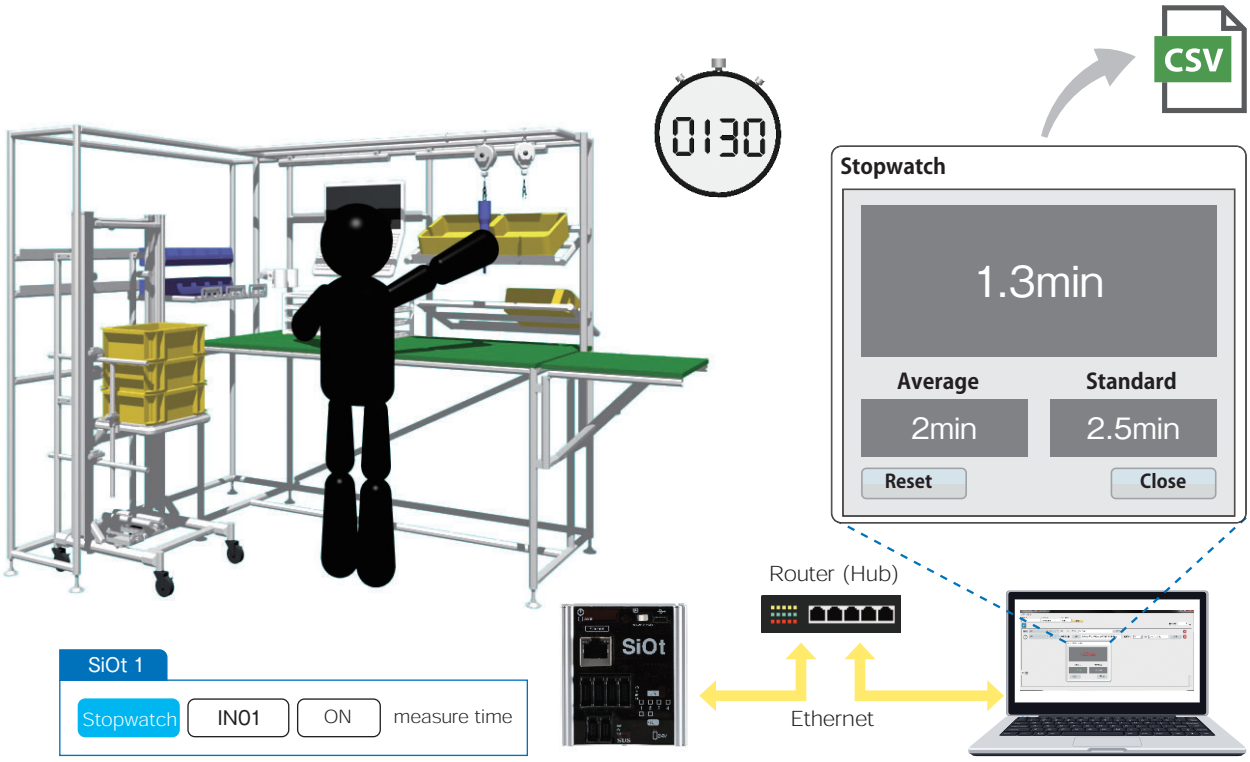
P.61

What is SiOt
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68 Time / Record the assembly time.

You need

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



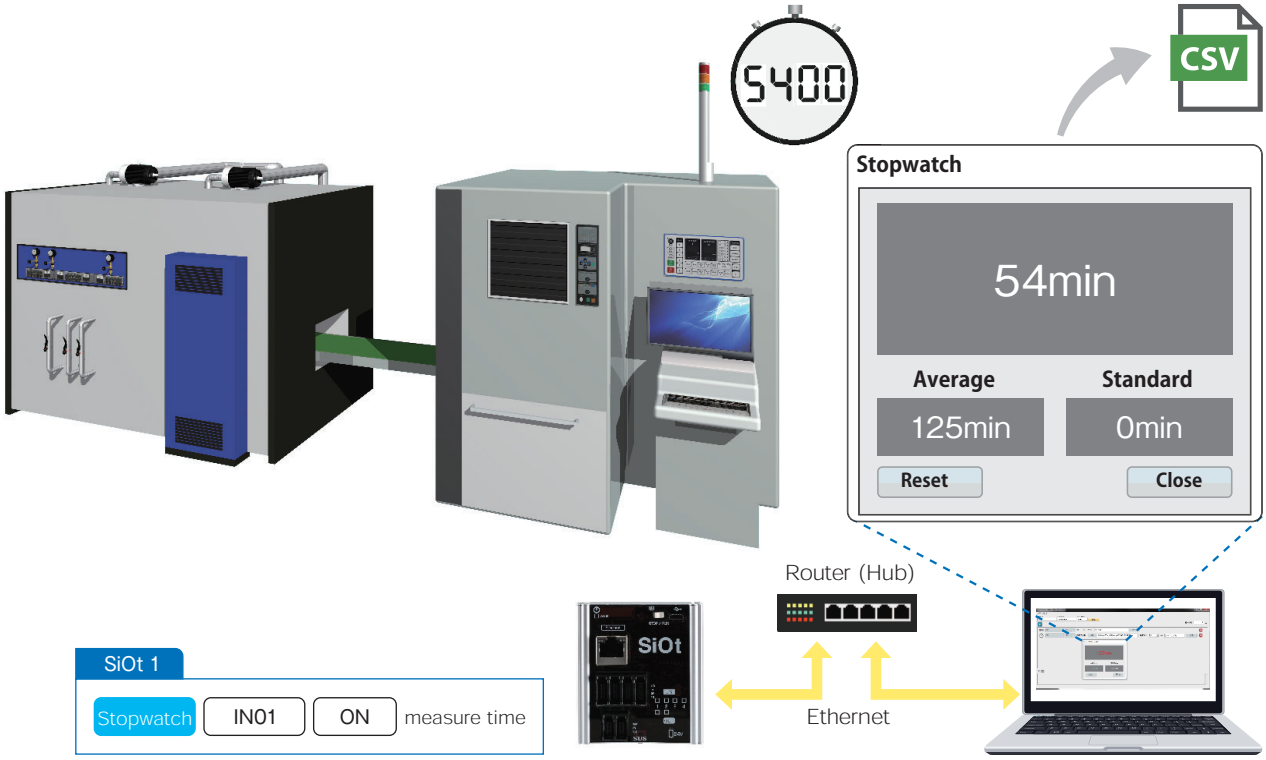
SiOt 1

Stopwatch	IN01	ON	measure time

69 Time / Record the operating time.

You need

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



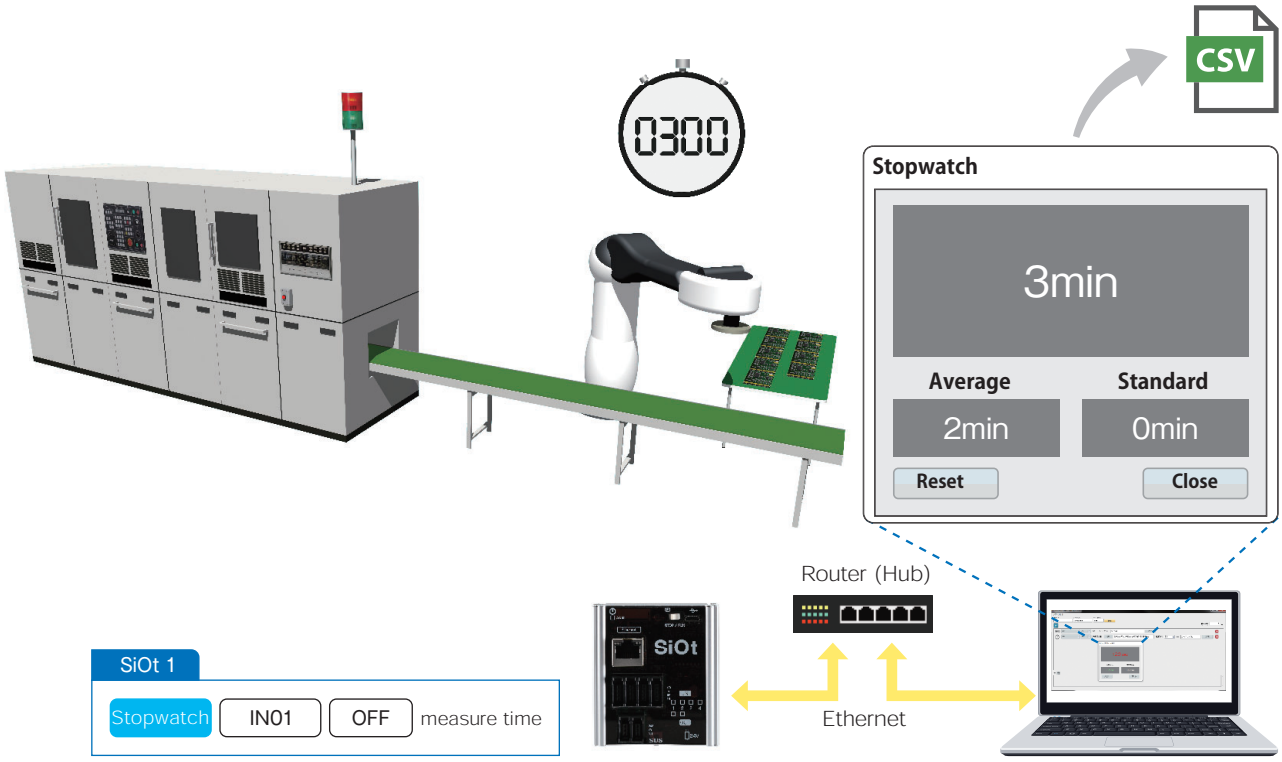
SiOt 1

Stopwatch	IN01	ON	measure time

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



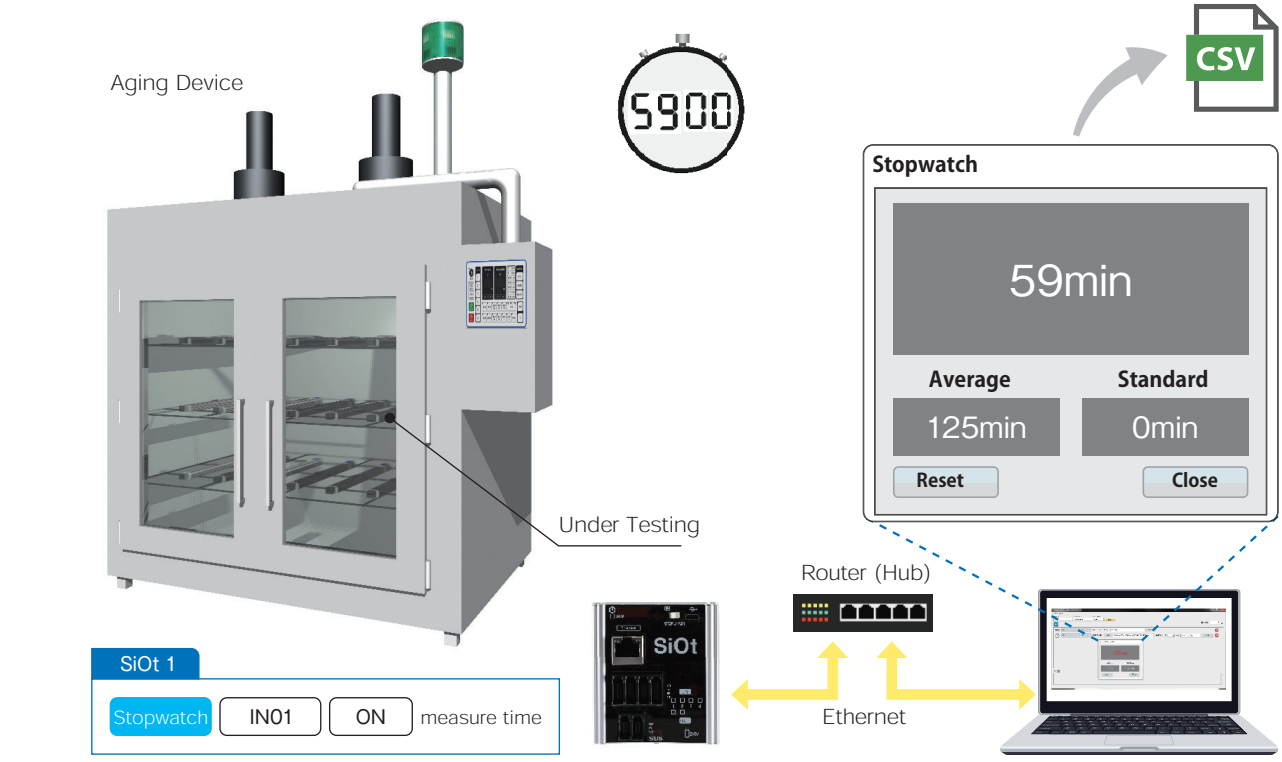
SiOt 1

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



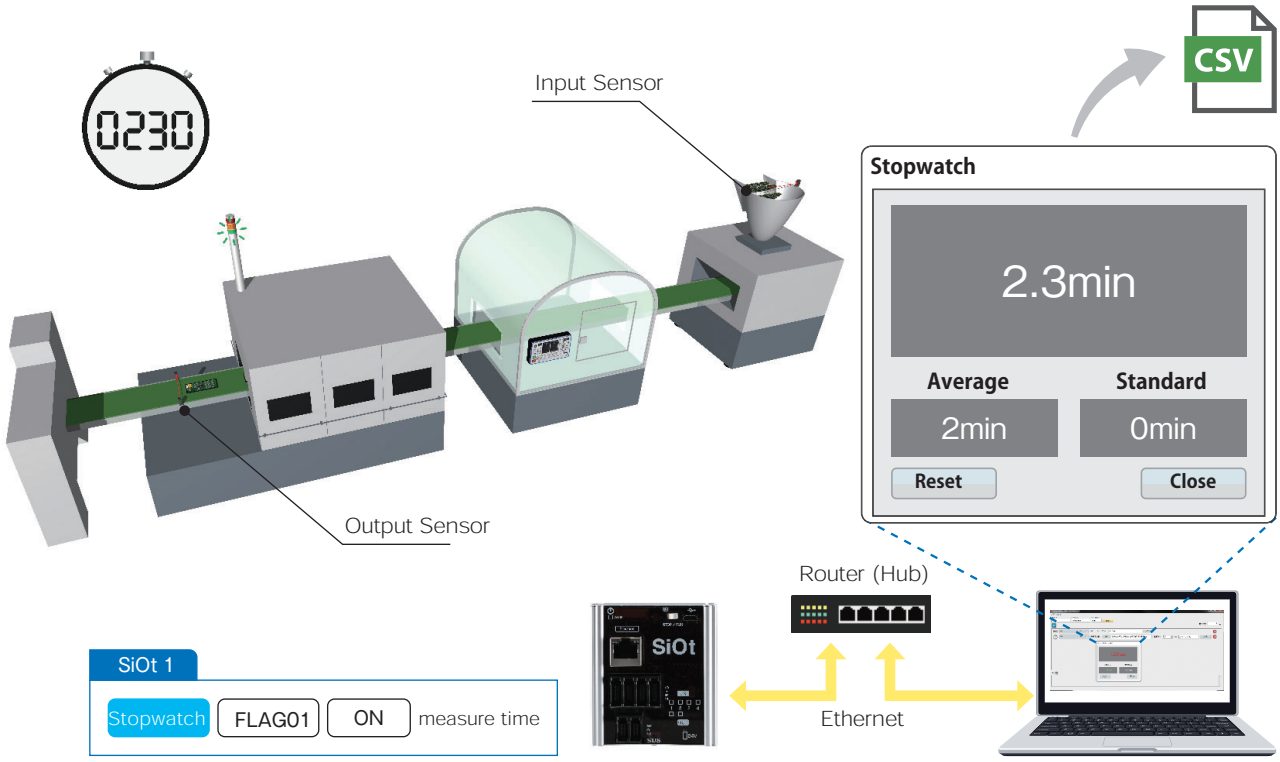
SiOt 1

Stopwatch	IN01	ON	measure time

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.



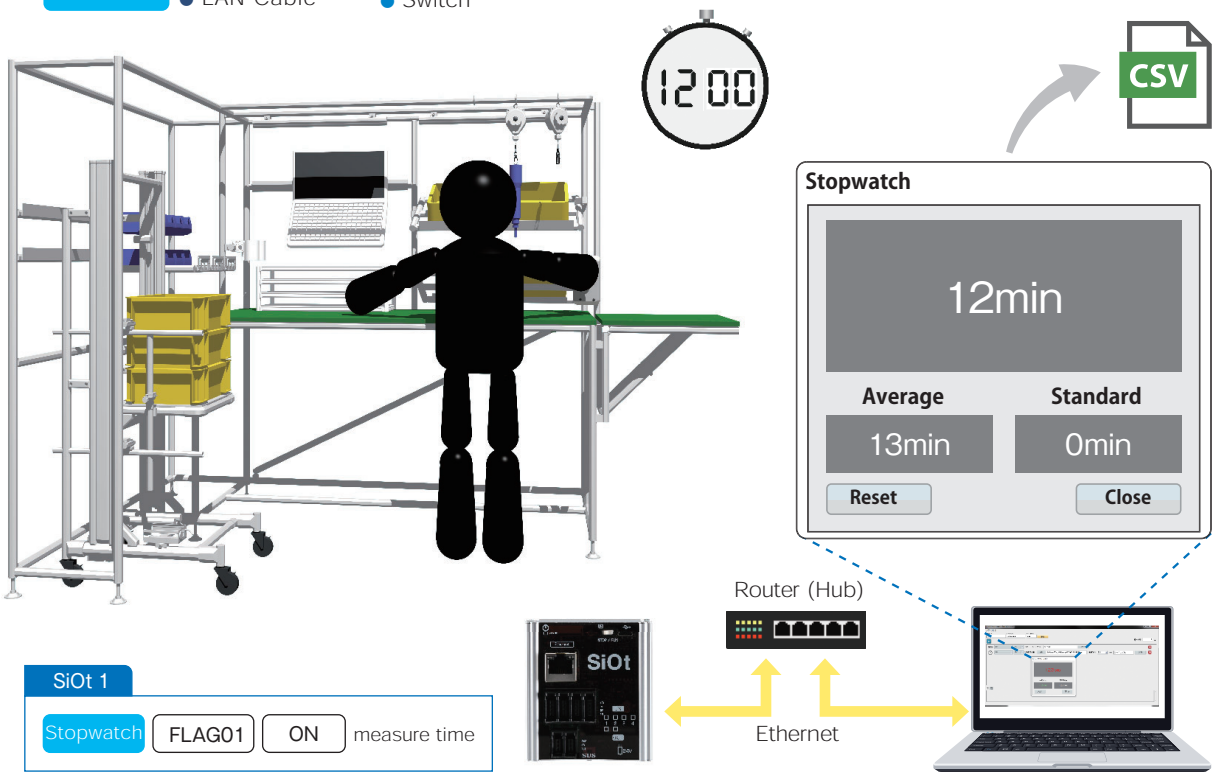
SiOt 1

Stopwatch	FLAG01	ON	measure time

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.



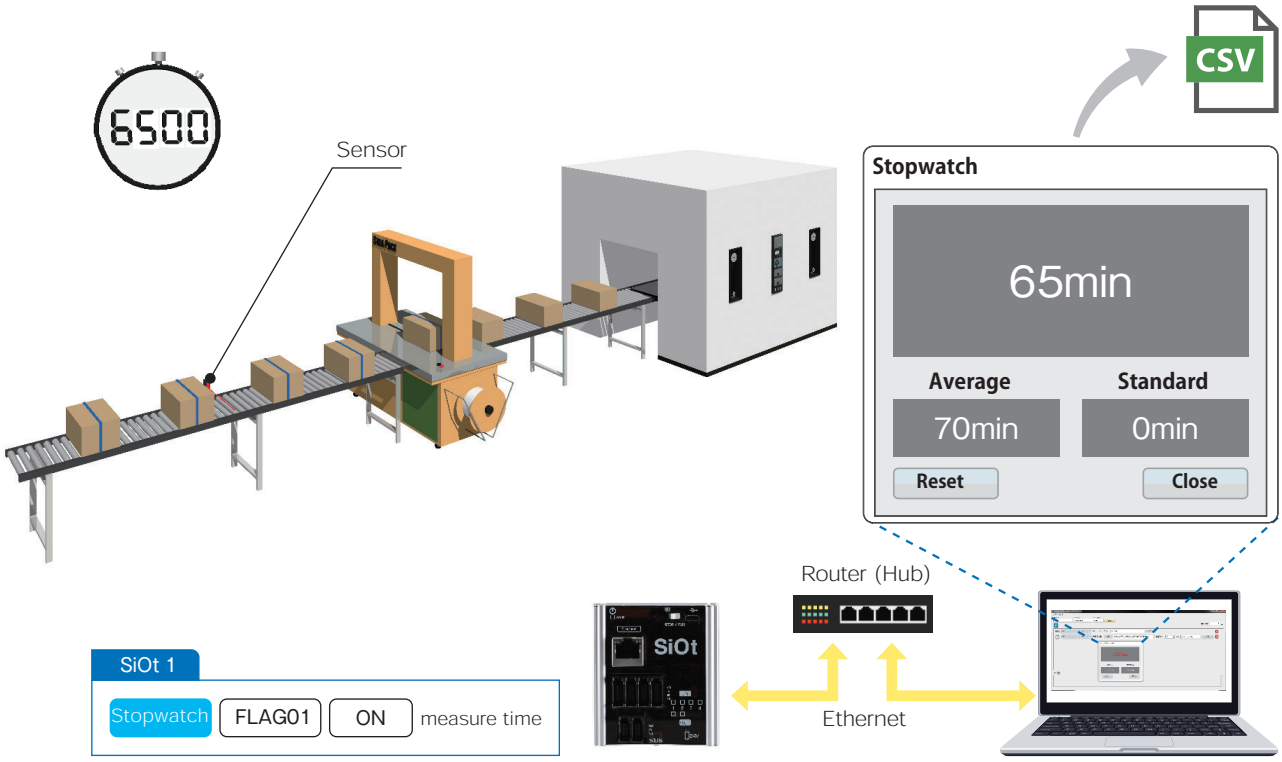
SiOt 1

Stopwatch	FLAG01	ON	measure time

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



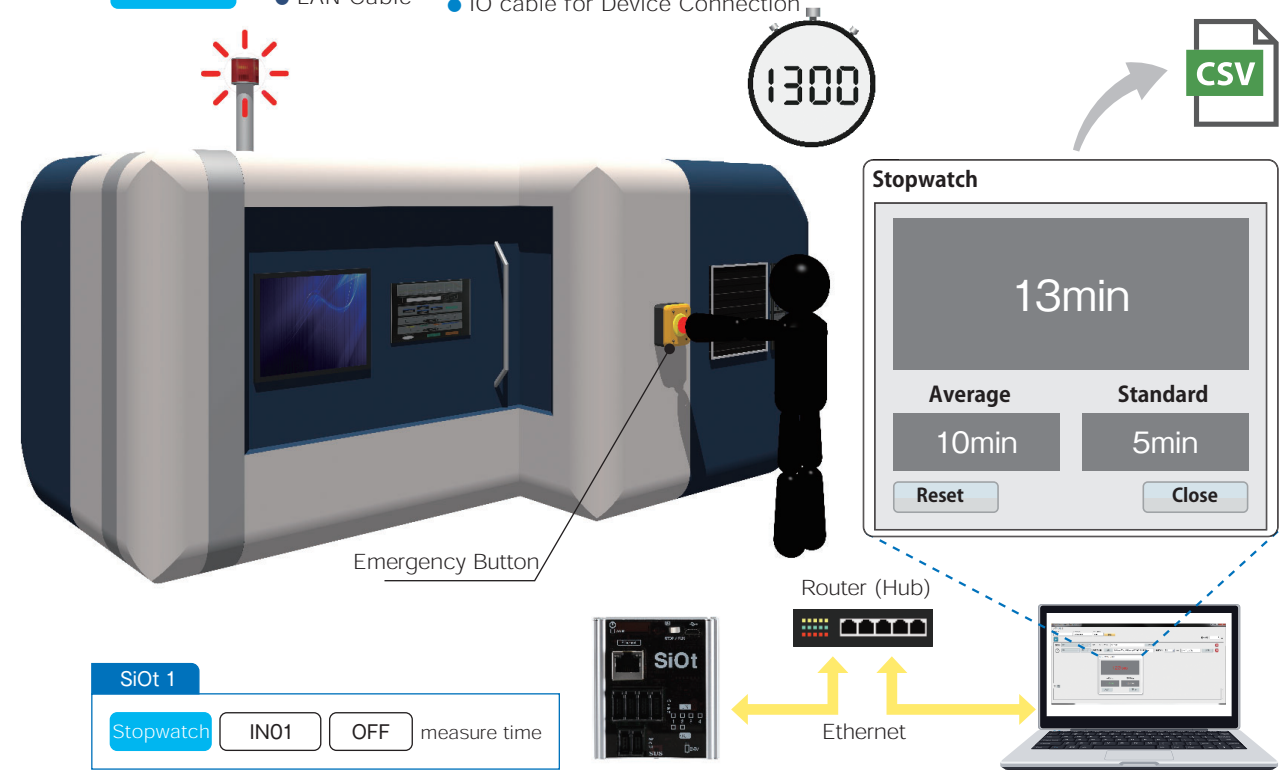
SiOt 1

Stopwatch	FLAG01	ON	measure time

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

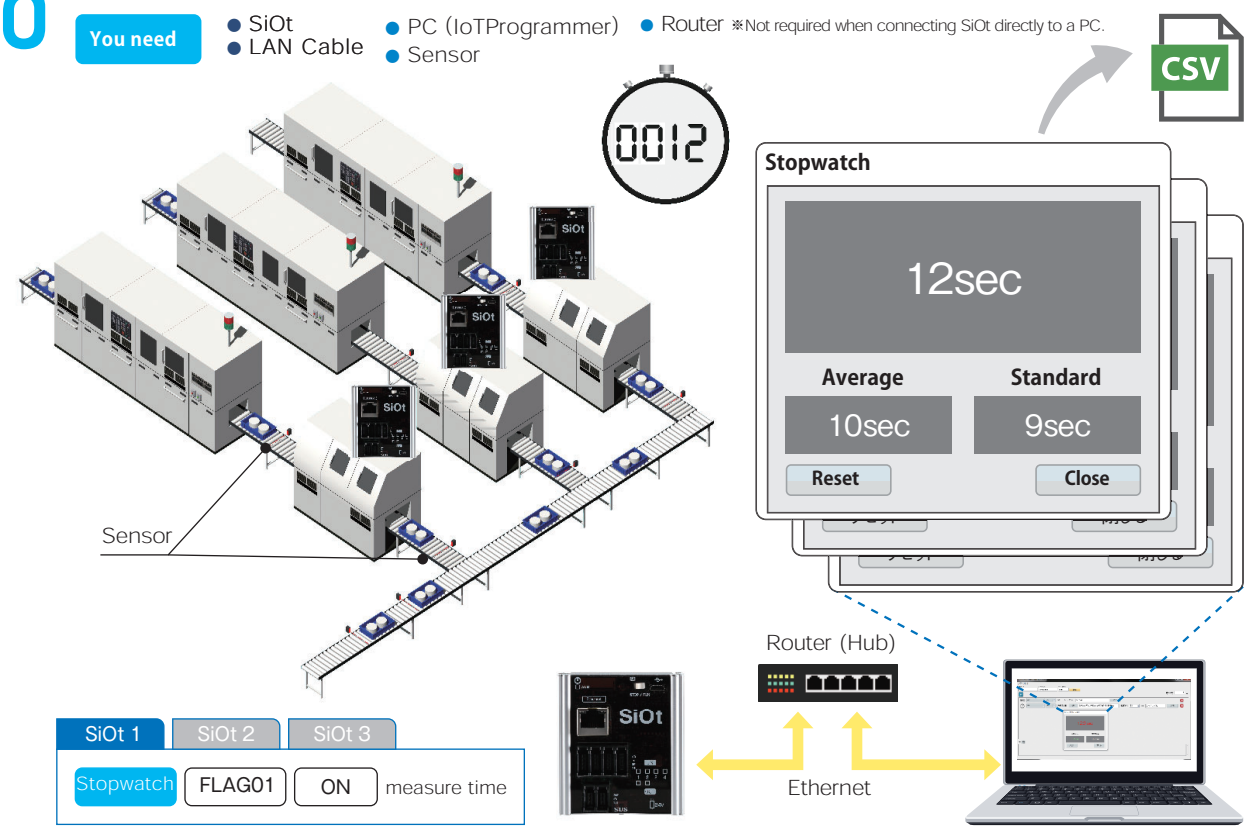


SiOt 1

Stopwatch	IN01	OFF	measure time

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

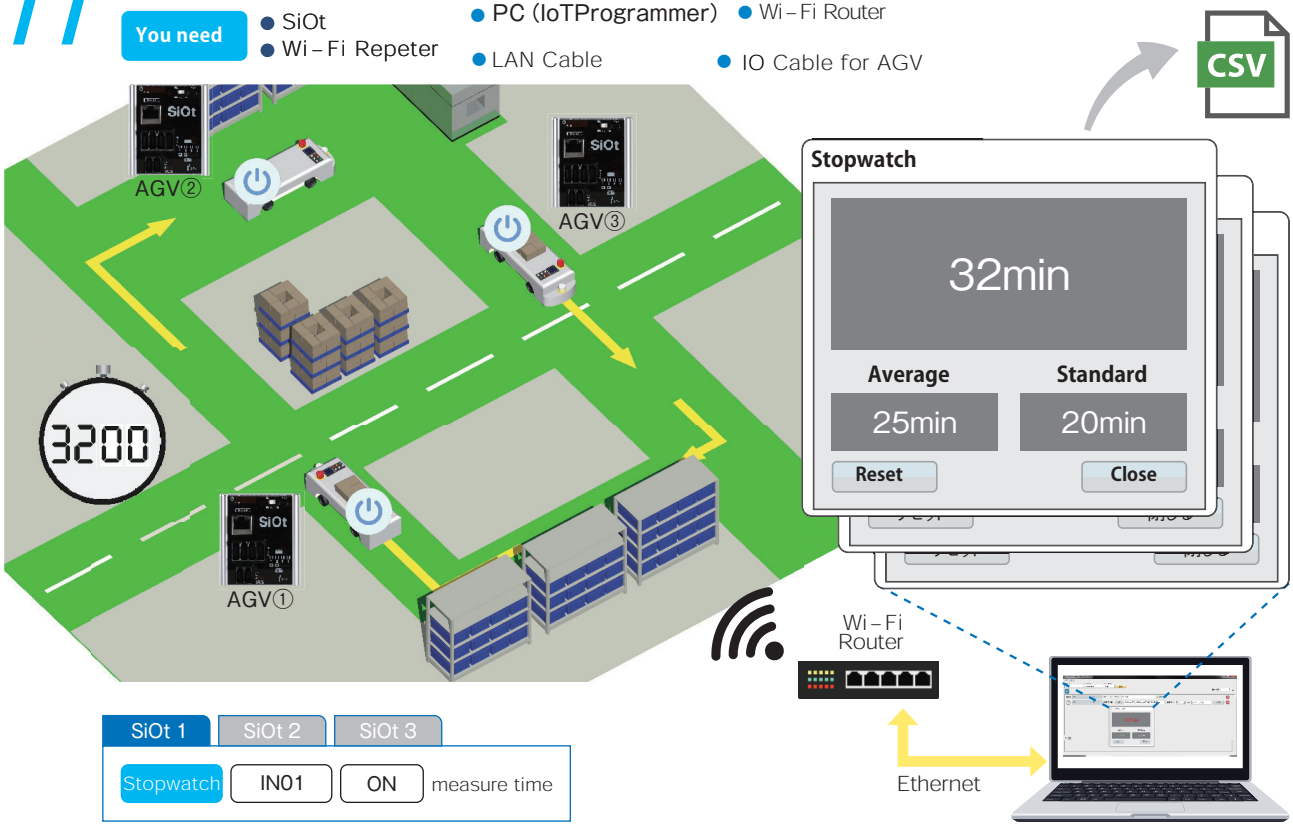
You need
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Sensor
- Router ※Not required when connecting SiOt directly to a PC.



SiOt 1	SiOt 2	SiOt 3
Stopwatch	FLAG01	ON	measure time

77 Time / Record each AGV runtime.

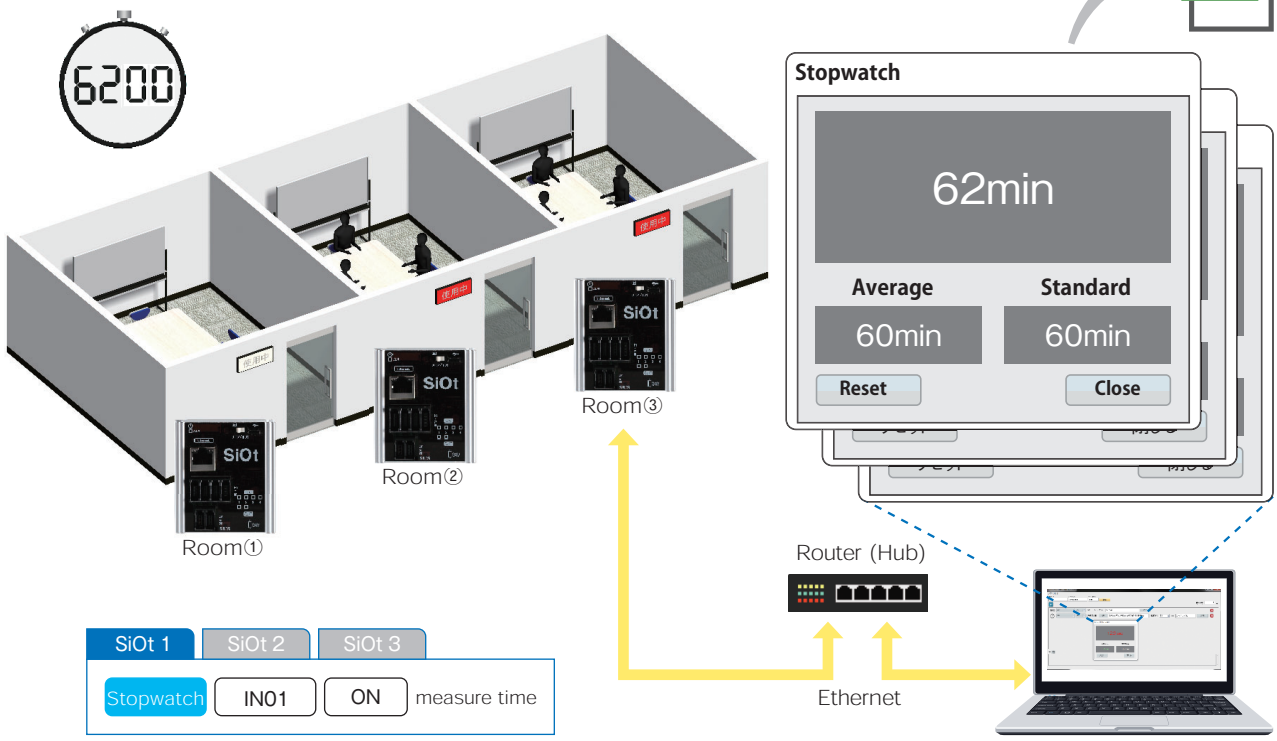
You need
- SiOt
- Wi-Fi Repeter
- PC (IoTProgrammer)
- LAN Cable
- Wi-Fi Router
- IO Cable for AGV



SiOt 1	SiOt 2	SiOt 3
Stopwatch	IN01	ON	measure time

78 Time / Record the time of using meeting rooms.

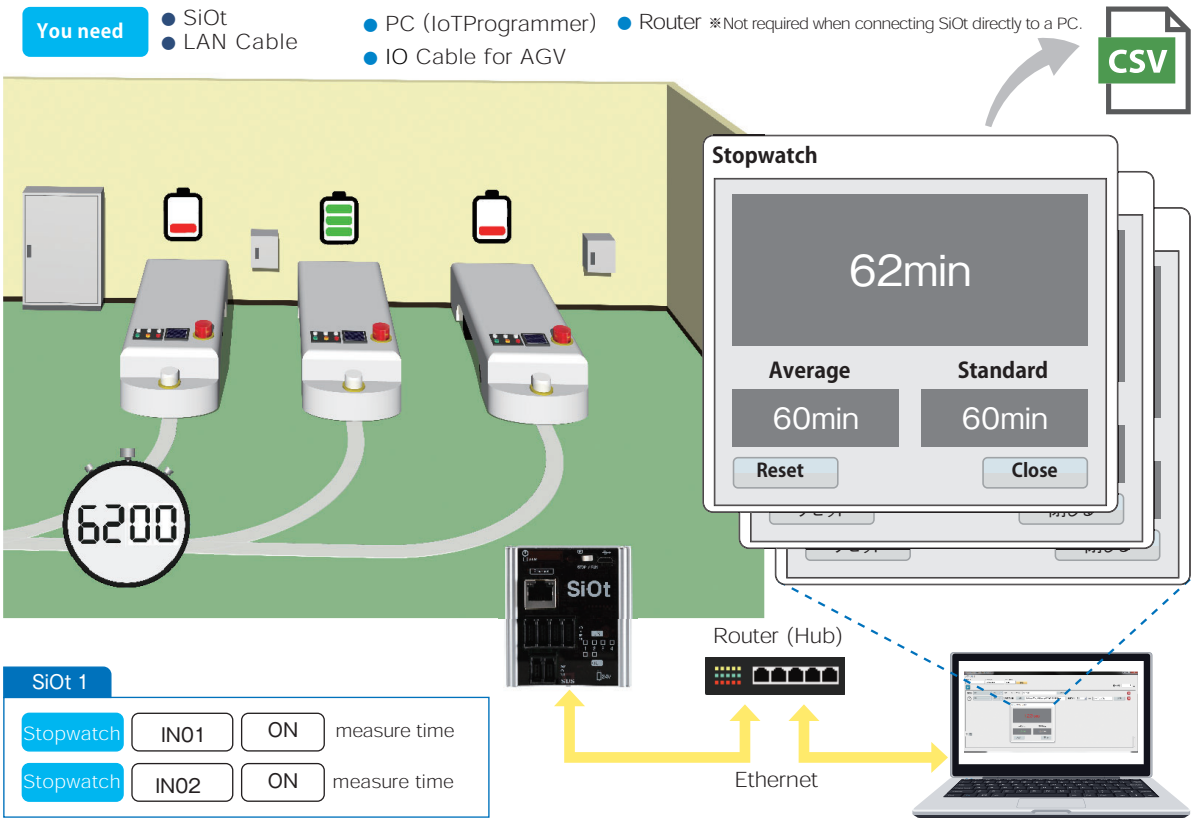
You need
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Sensor
- Router ※Not required when connecting SiOt directly to a PC.



SiOt 1	SiOt 2	SiOt 3
Stopwatch	IN01	ON	measure time

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.



SiOt 1			
Stopwatch	IN01	ON	measure time
Stopwatch	IN02	ON	measure time

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

80 Operate the equipment only during the daytime on weekdays.



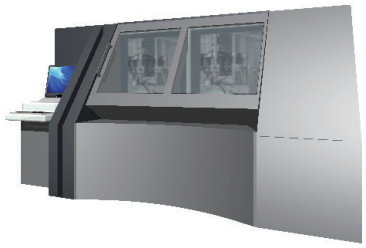
P.63

81 Control each equipment from the PC.



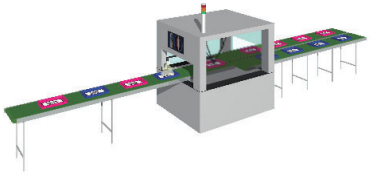
P.63

82 Setting the Device Operation Mode from the PC.



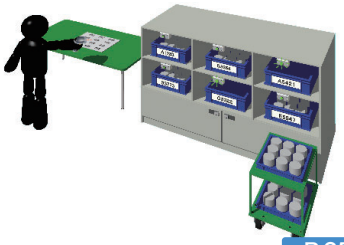
P.64

83 Switching equipment item with a barcode scanner.



P.64

84 Informs the picking shelf according to barcode scanner readings.



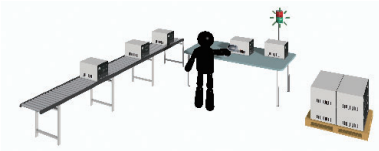
P.65

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



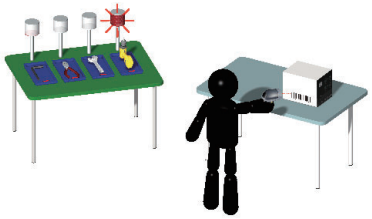
P.65

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



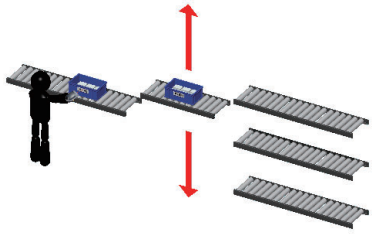
P.66

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



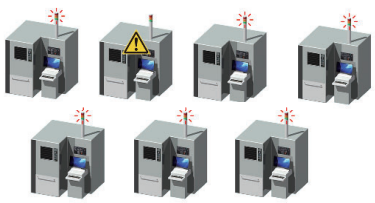
P.66

88 Sort items by reading barcodes.



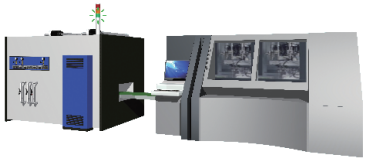
P.67

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



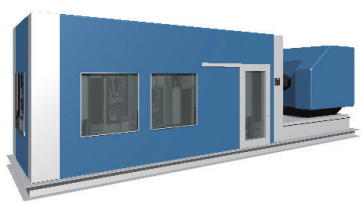
P.67

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

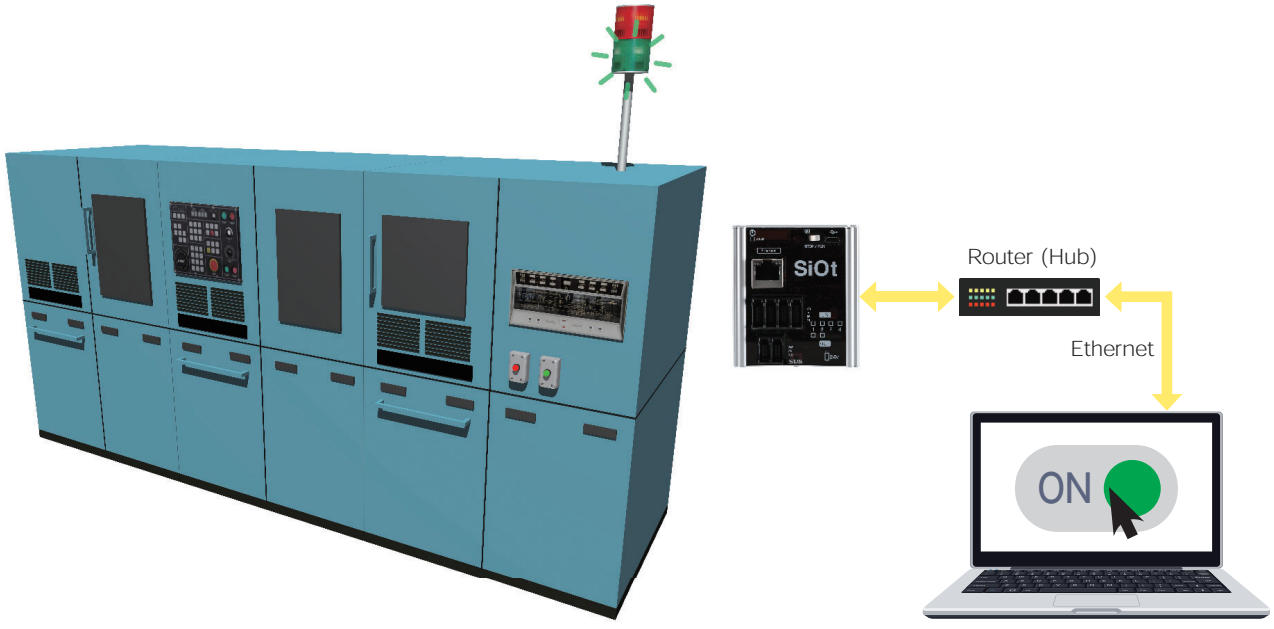


SiOt 1

Calender 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

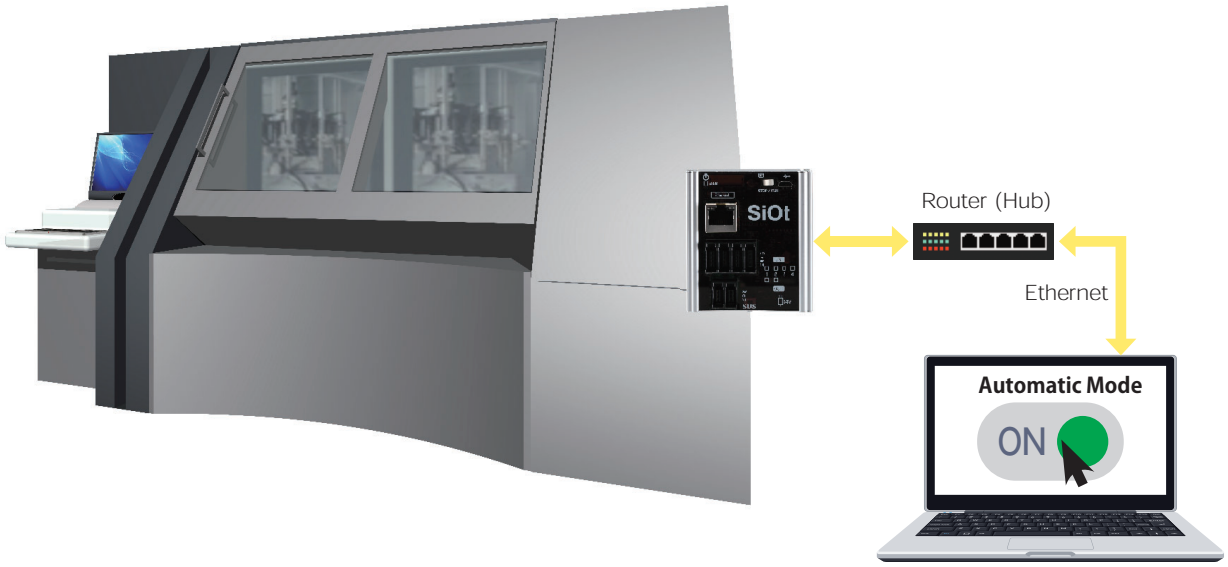


SiOt 1

Toggle — Then send a signal to SiO with Switch ON

82 Setting the Device Operation Mode 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

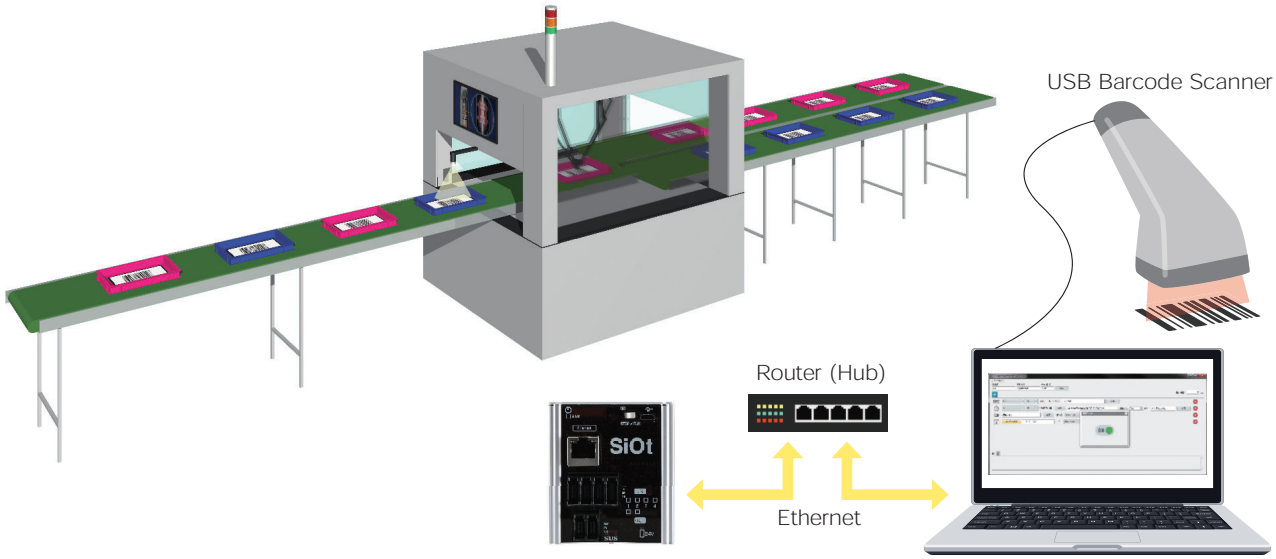


SiOt 1

Toggle	Then send a signal to SiO with Switch ON

83 Switching equipment item with a barcode scanner

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



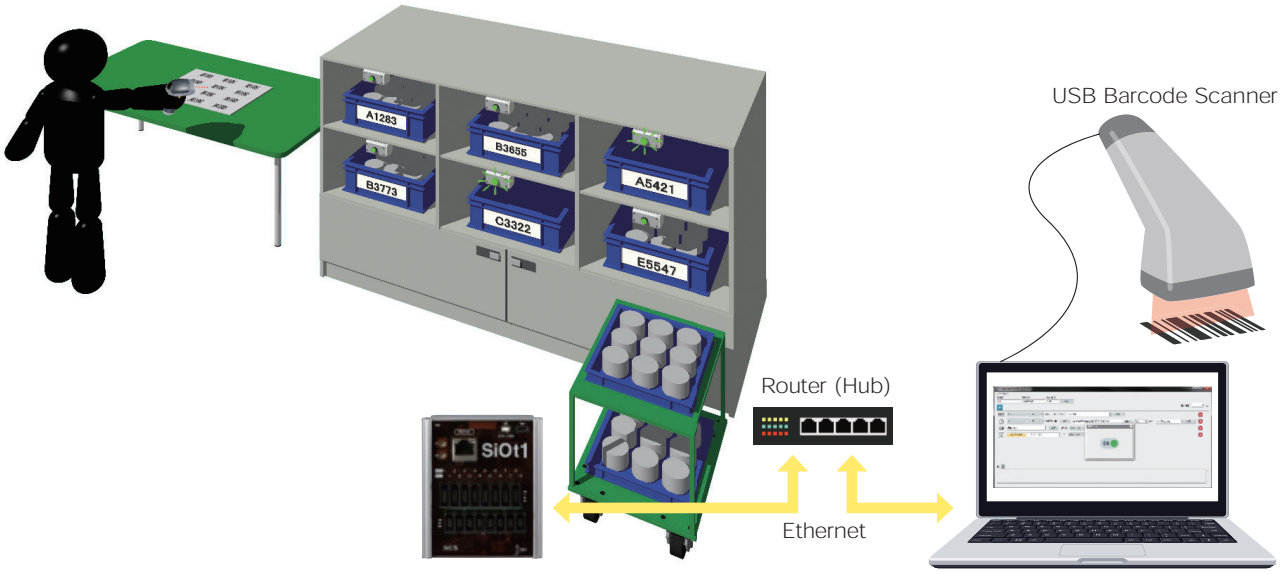
SiOt 1

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



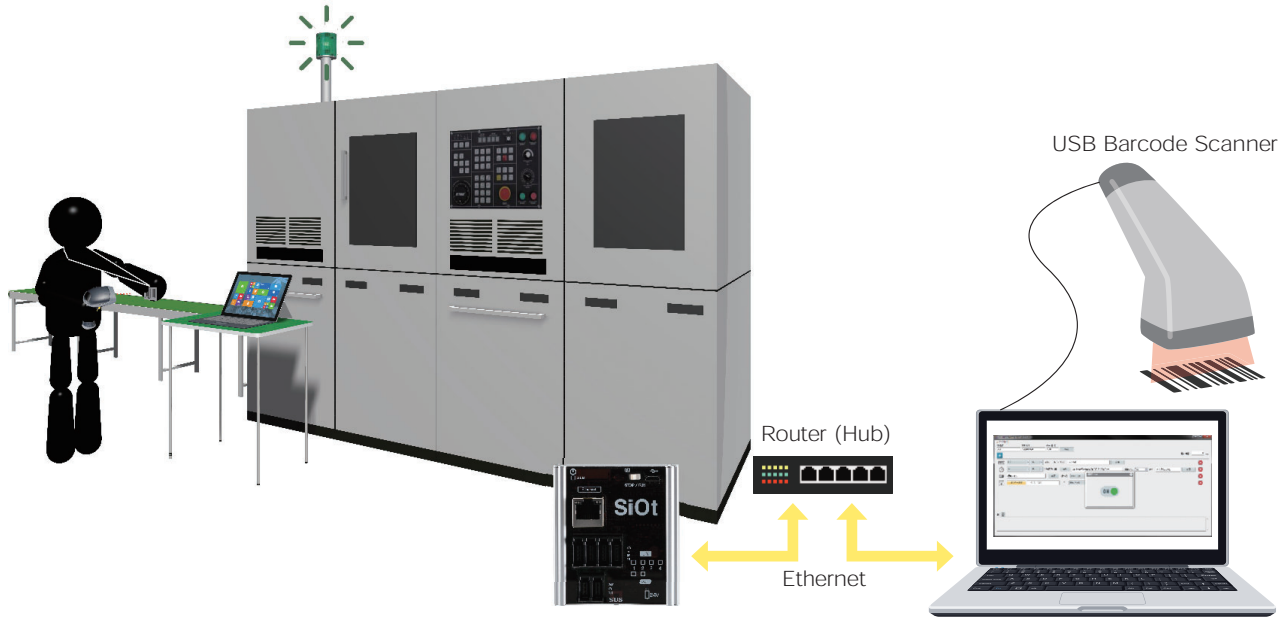
SiOt 1

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 controll 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

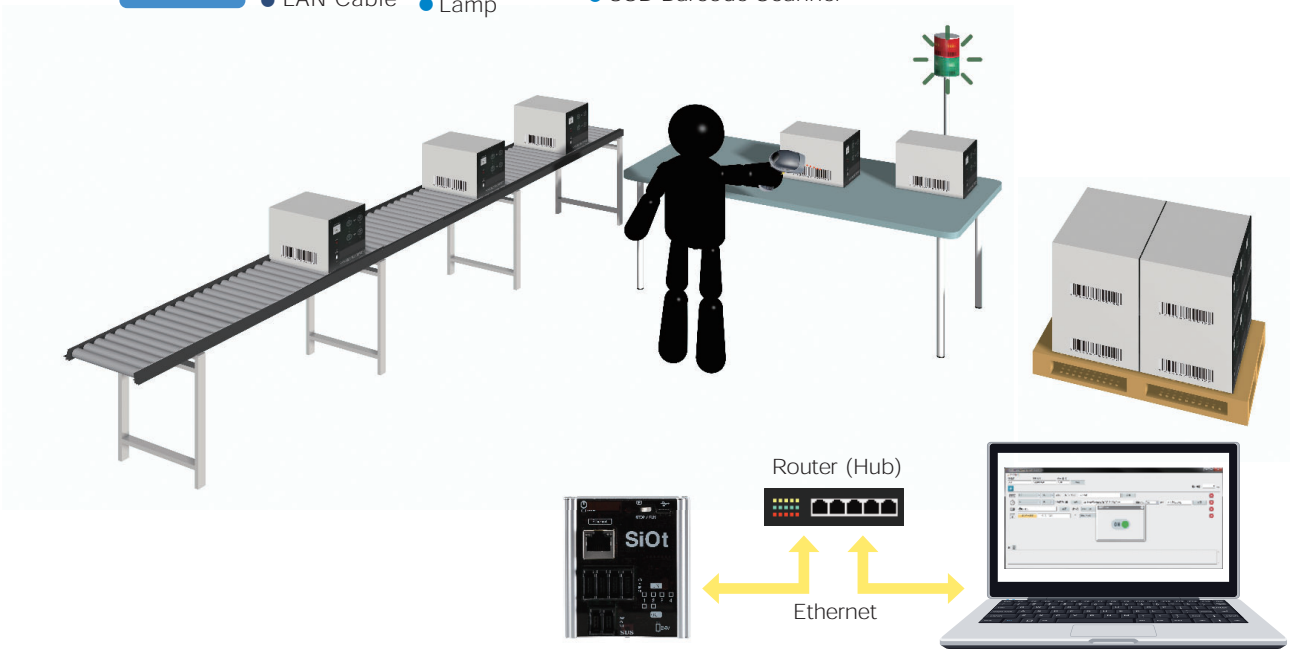


SiOt 1

Barcode	is	837267	Match then send a signal to SiO

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

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

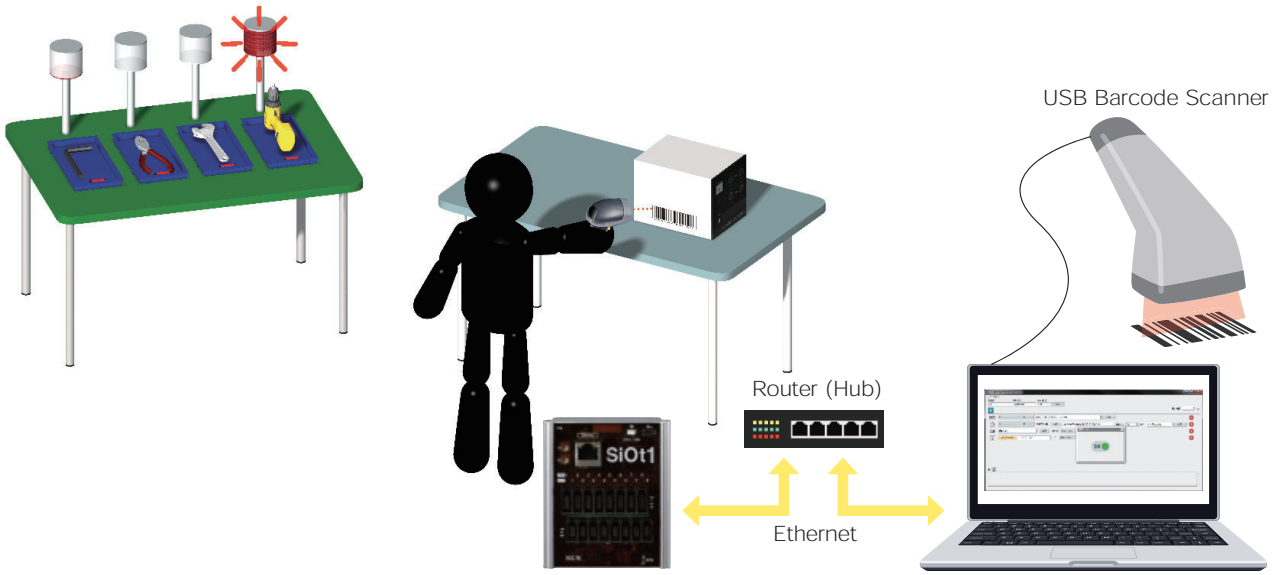


SiOt 1

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)
- Router ※Not required when connecting SiOt directly to a PC.
- Sensor
- Lamp
- USB Barcode Scanner



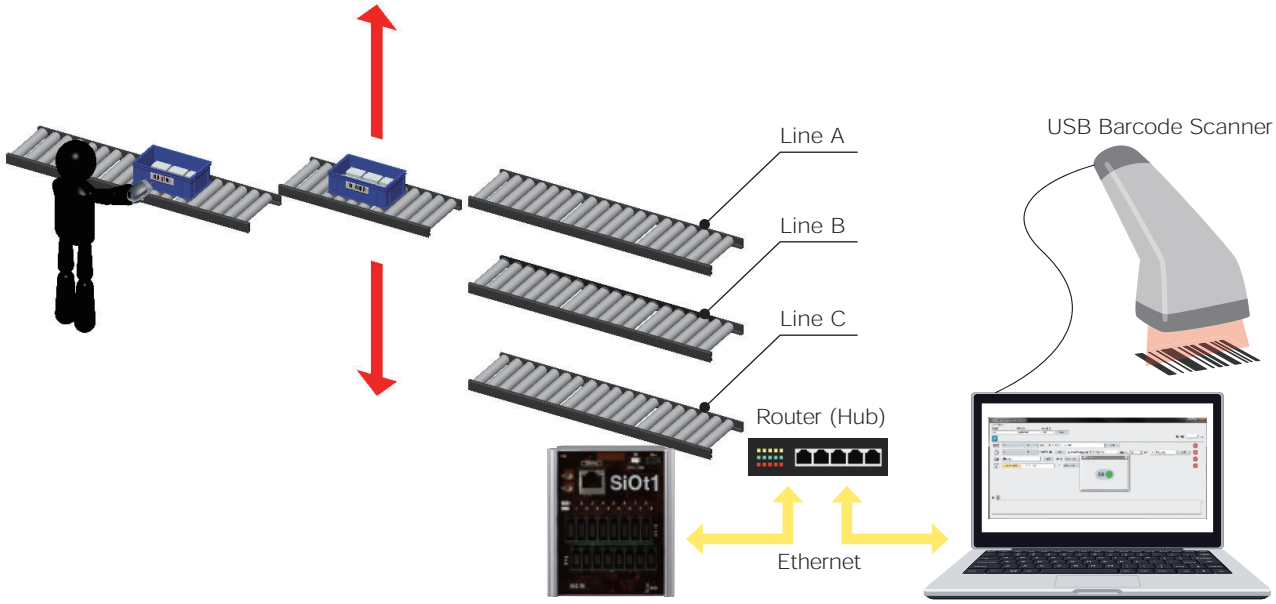
SiOt 1

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

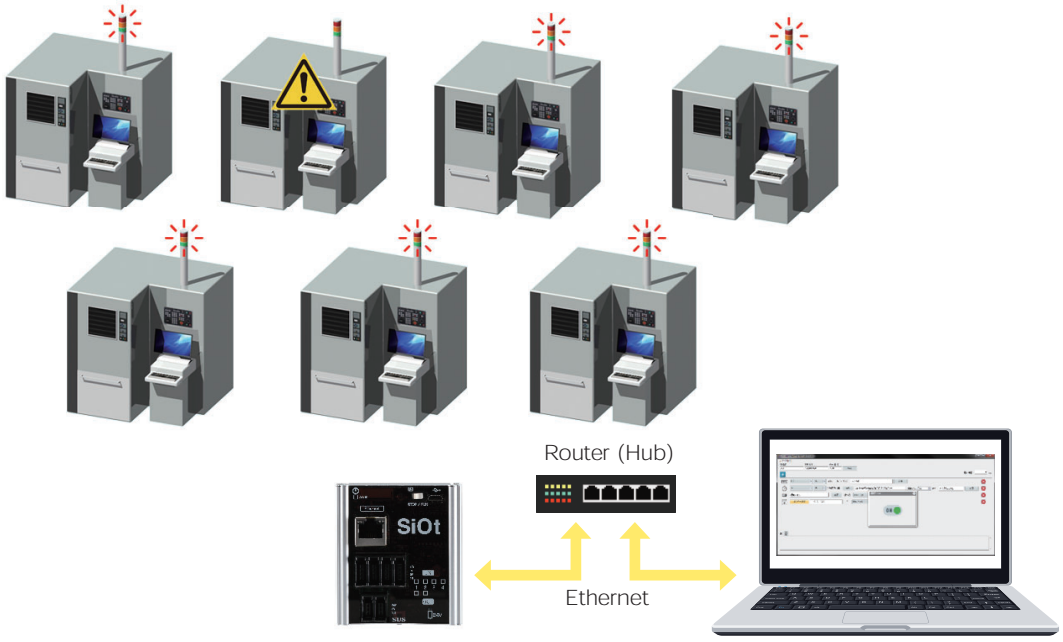


SiOt 1

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

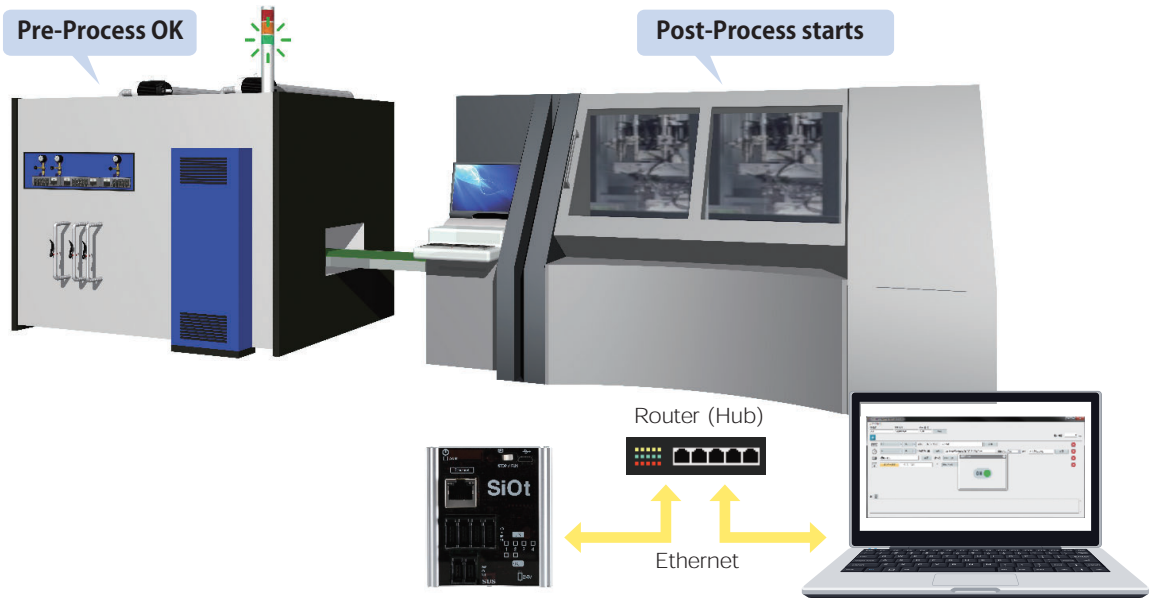


SiOt 1 | SiOt 2 | SiOt 3 | SiOt 4 | SiOt 5 | SiOt 6 | SiOt 7

Controller Cordination	SiO2 IN01	ON	Then send a signal to SiO

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

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

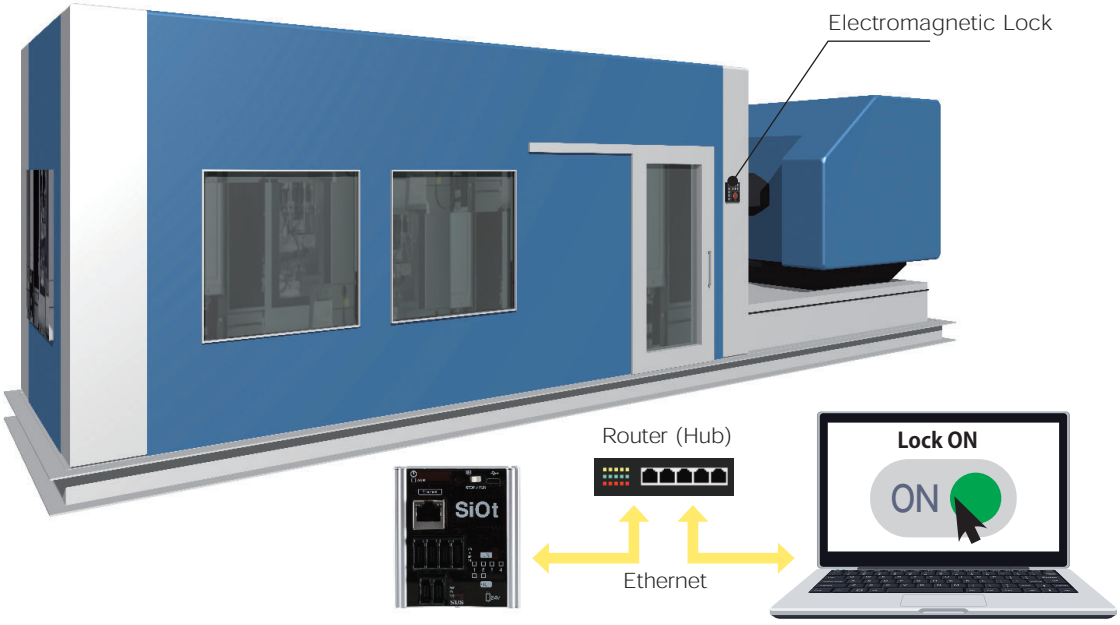


SiOt 1 | SiOt 2

Controller Cordination	SiO2 IN01	ON	Then send a signal to SiO

91 Remote locking of the electromagnetic lock of the device.

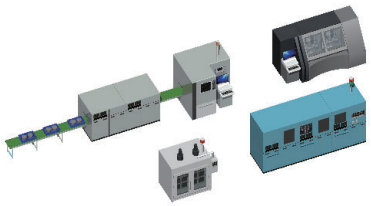
You need
- SiOt
- LAN Cable
- PC (IoTProgrammer)
- Router ※Not required when connecting SiOt directly to a PC.
- IO cable for Device Connection



SiOt 1

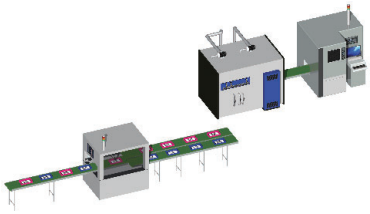
Toggle	Then send a signal to SiO with Switch ON

92 Display the operation rates of each device on PC.



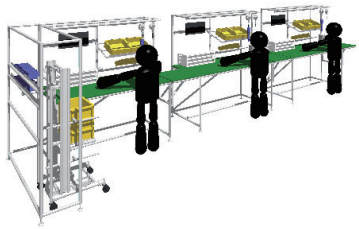
P.70

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



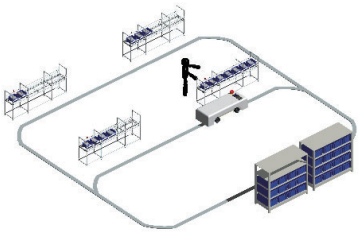
P.70

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



P.71

95 Operate the AGV only when instructed to collect parts.



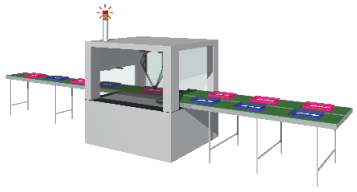
P.71

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



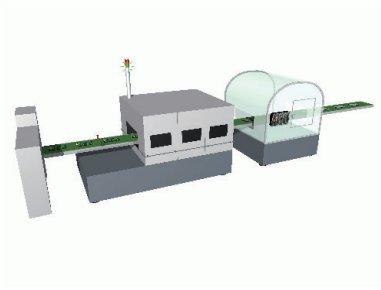
P.72

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



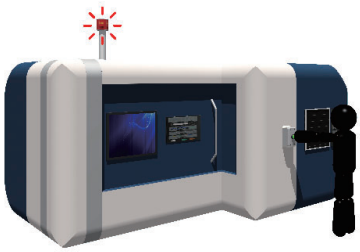
P.72

98 Control the device with link to internal software.



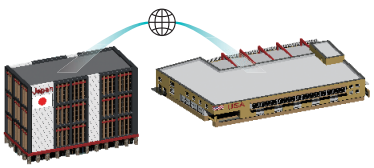
P.73

99 Record the state of device to Internal Database.



P.73

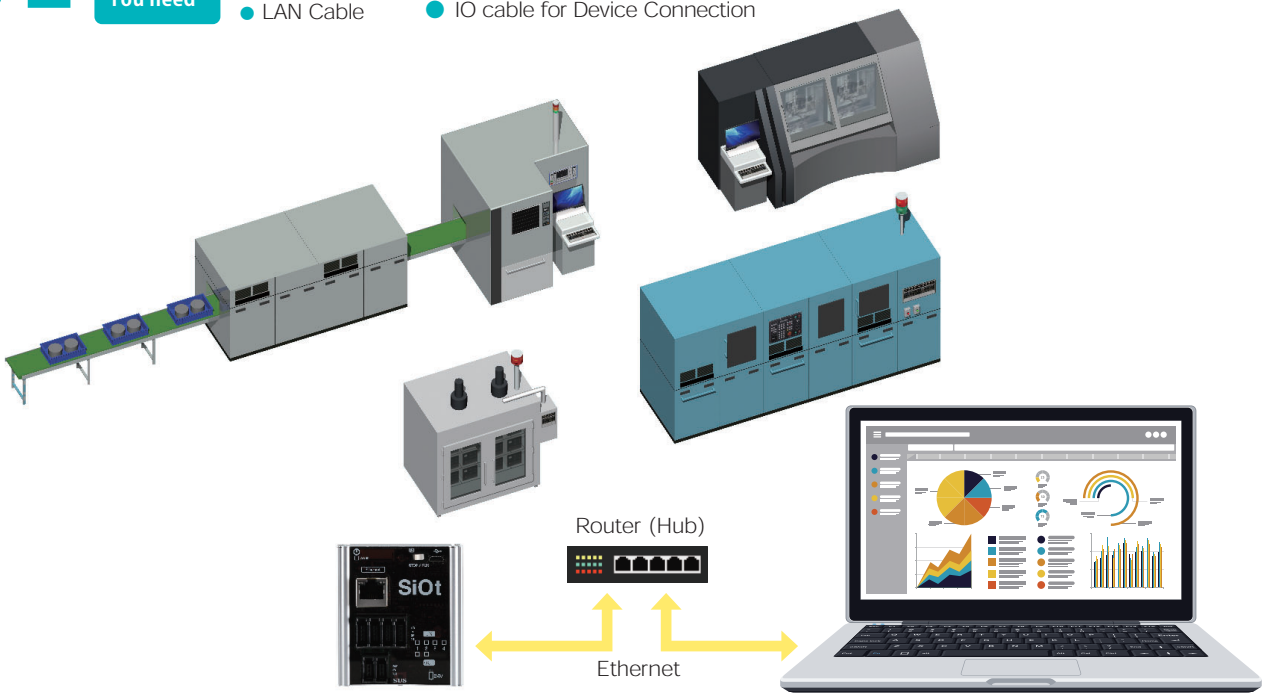
100 Monitor the status of overseas factories from headquarters.



P.74

92 Display the operation rates of each device on PC.

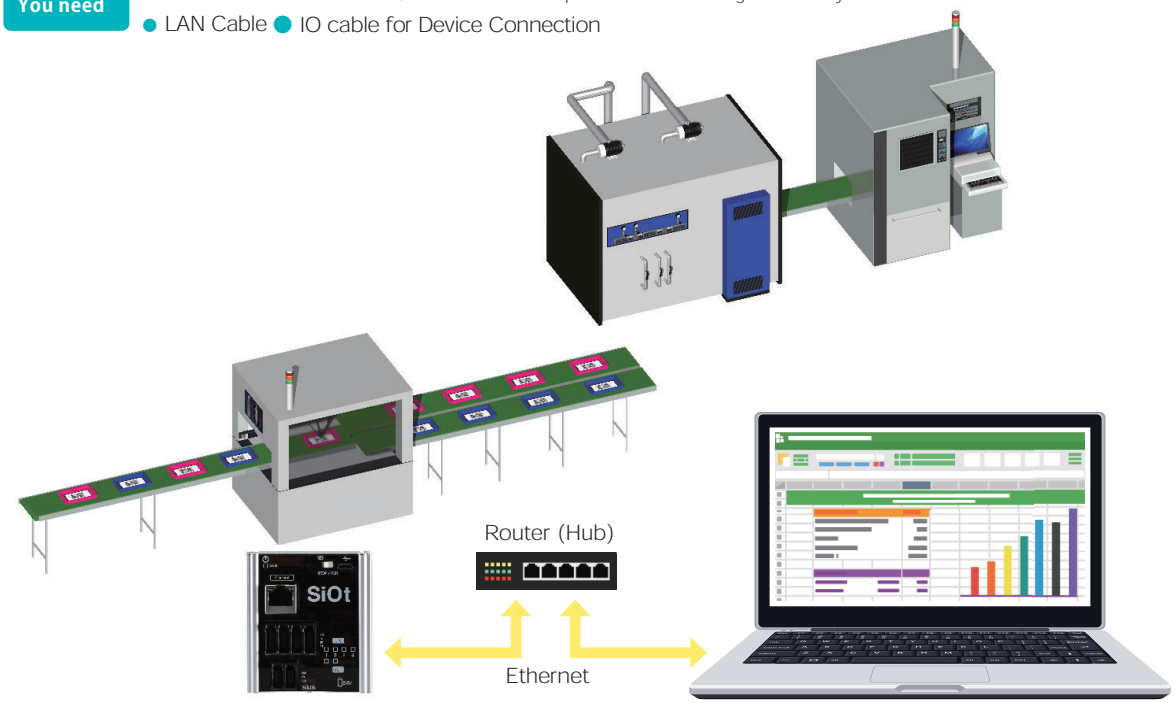
You need
- SiOt
- PC
- Router ※Not required when connecting SiOt directly to a PC.
- LAN Cable
- IO cable for Device Connection



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

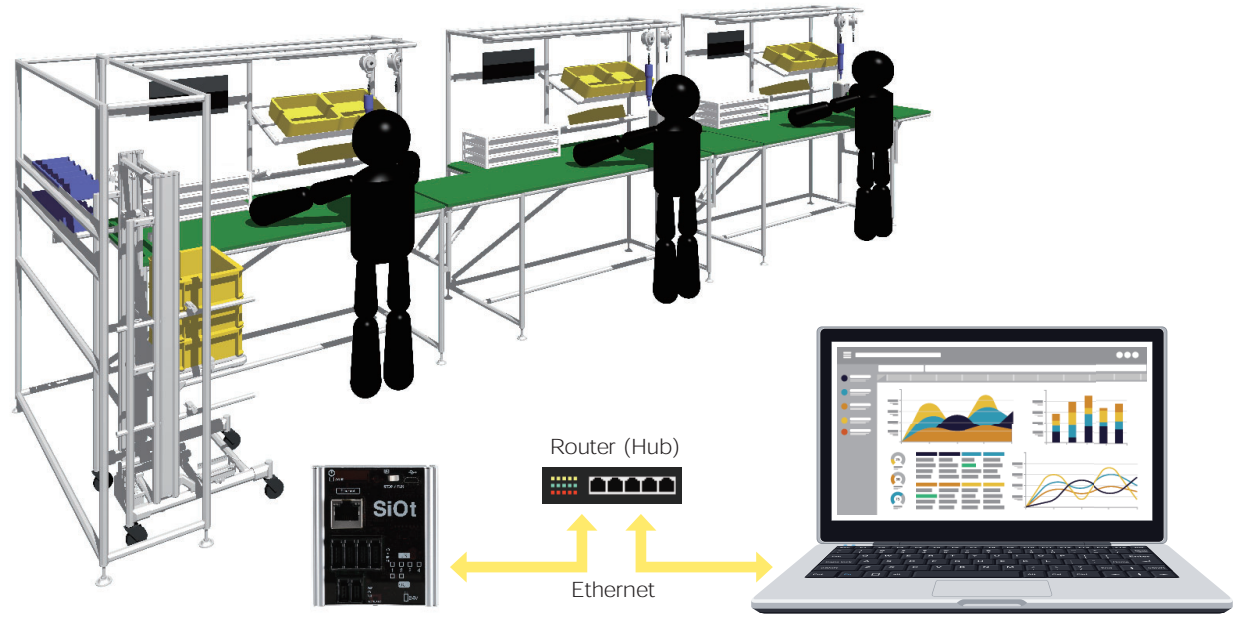


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

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.

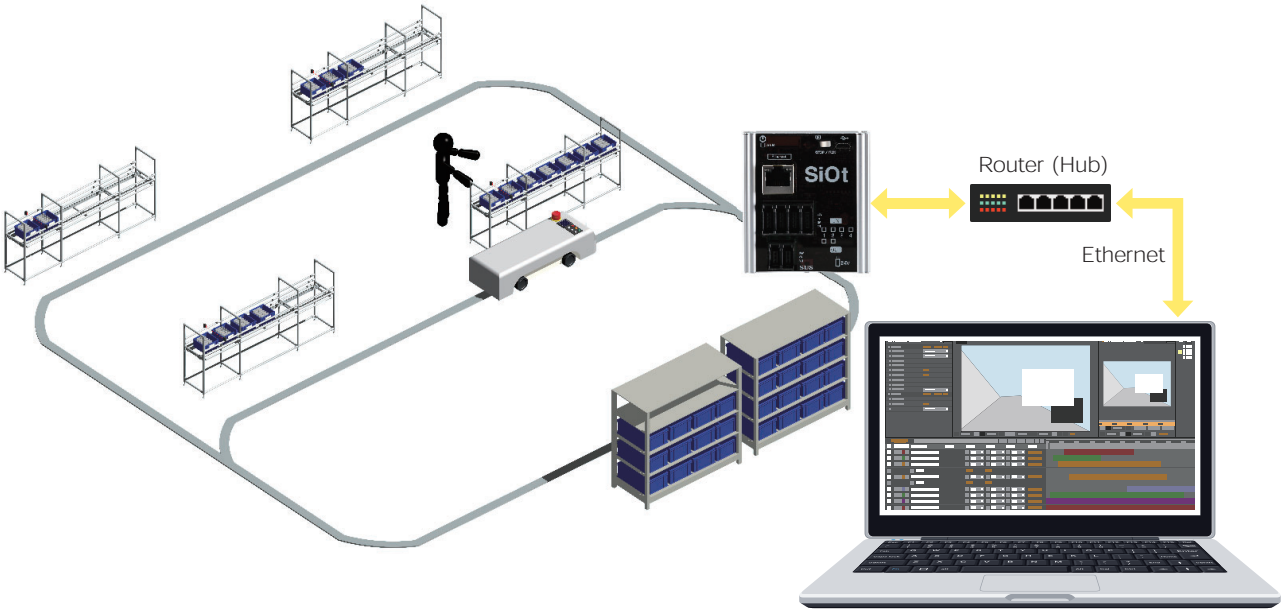


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

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.

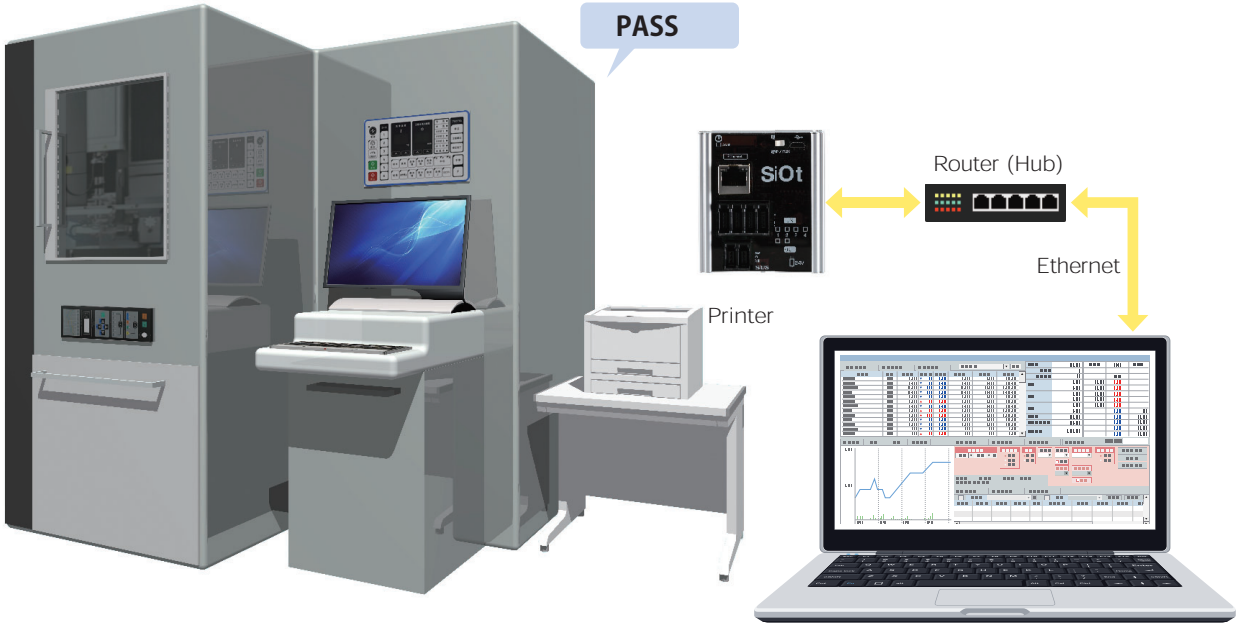


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

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

You need

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

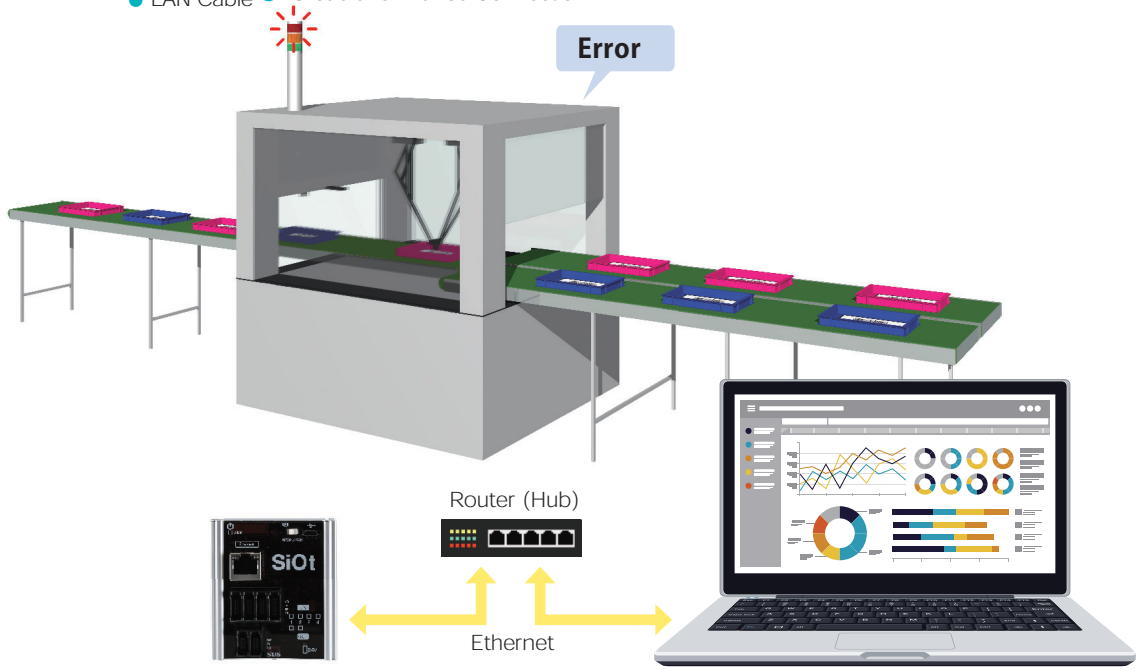


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

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

You need

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

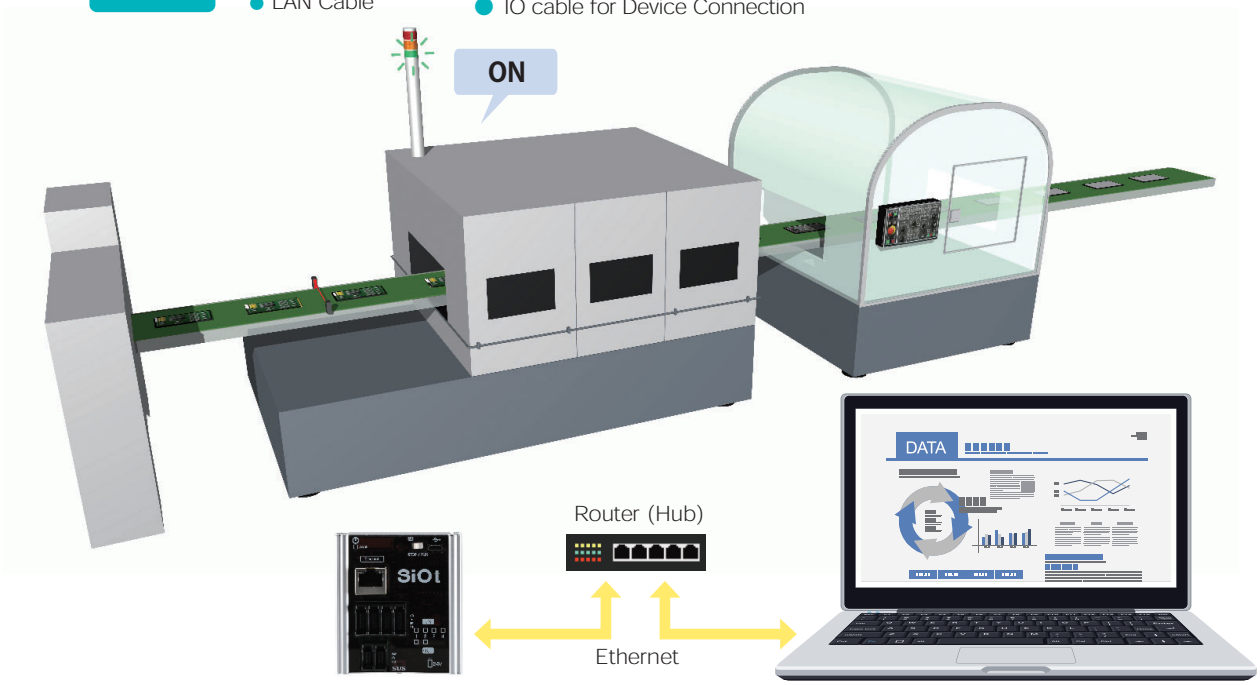


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

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

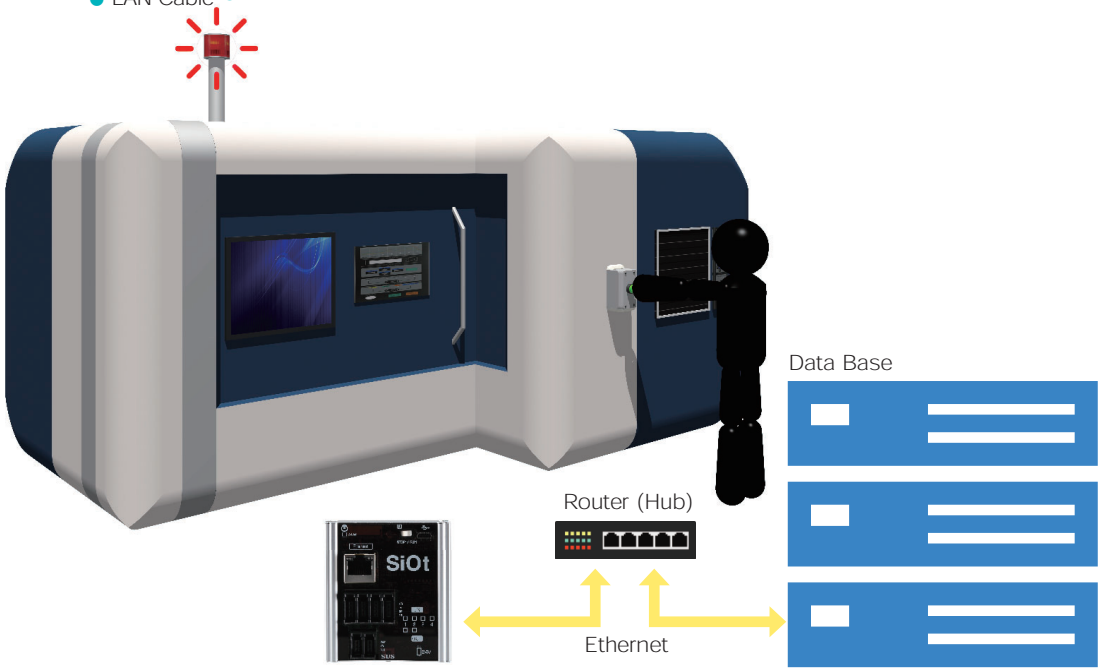


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

99 Record the state of device to Internal Database.

You need

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

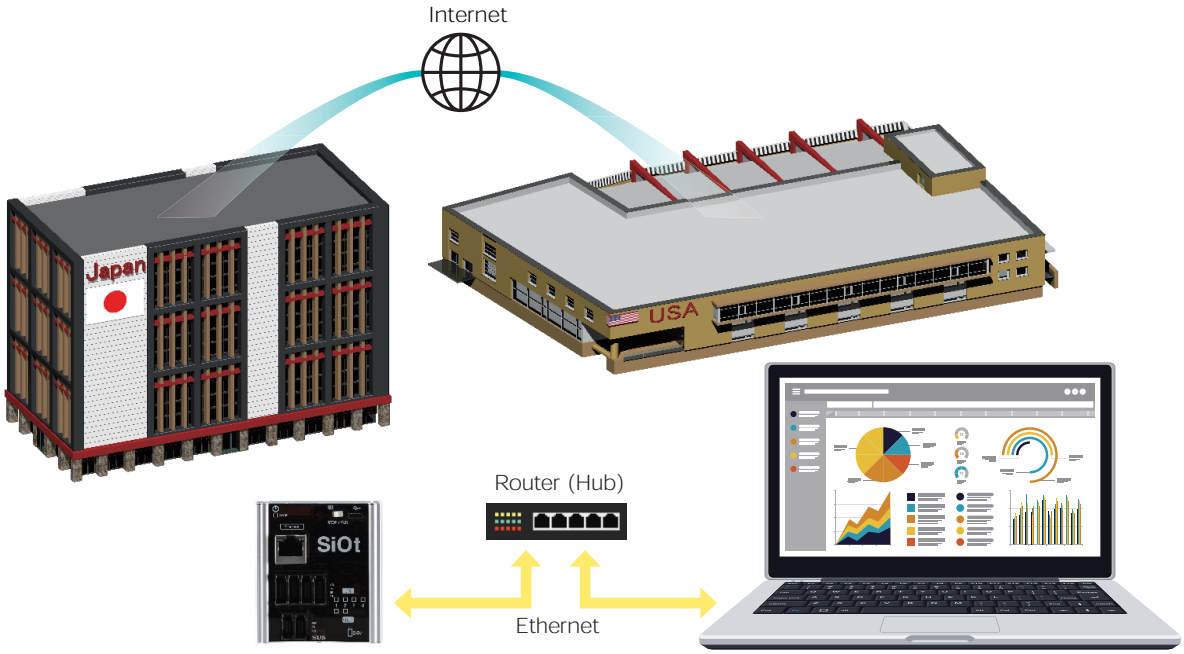


User can make their own software for PC. PC and SiOt network by Ethernet Command for SiO

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



SiOt Products

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

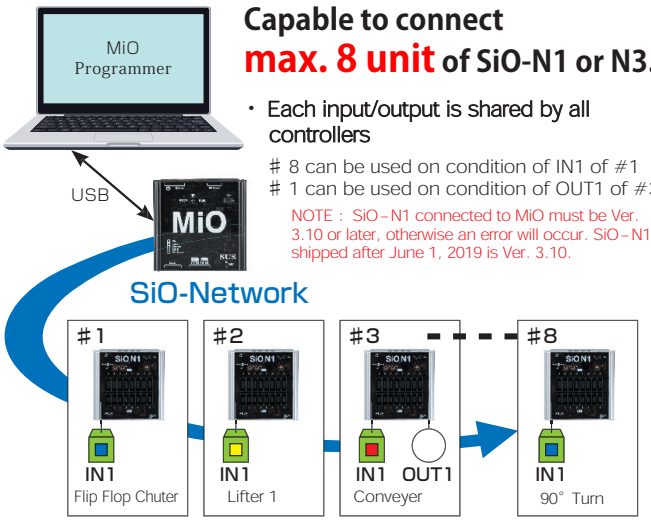
Size	W80mm x D35mm x H81mm
Item No.	XAC-052



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.

IoT Programmer



【Function】

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

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.

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

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

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.
CableLength : 1m
Model : SFVS-1
Maker : KOKUSAIDENGYO

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

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.

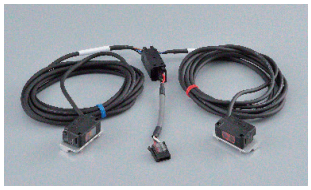
Photoelectric Sensor (PZ-G51N) with GF-S Angle bracket



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

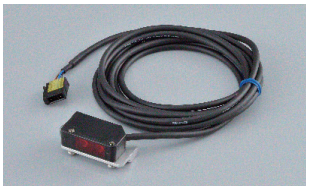
Photoelectric Sensor (Reflective Type) With GF-S Angle Bracket



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)

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

CableLength : 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

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 : Q22Y5SZZRGB24E－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 Φ40
Cable Length : 1m
Model : LOUT－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 Φ40 with Buzzer.
Cable Length : 1m
Model : LOUTB－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 Φ40 Cable Length : 1m
Model : LOUT－24－3RYG
Maker : Schneider Electric
※The color sequence can be rearranged by the customer.

Lamp with e-CON (Blue)



Item No. SUC-288

Lamp Φ40 Blue
Cable Length : 1m
Model : LOUT－24－1B
Maker : Schneider Electric

Lamp with e-CON (Yellow)



Item No. SUC-289

Lamp Φ40 Yellow
Cable Length : 1m
Model : LOUT－24－1Y
Maker : Schneider Electric

Lamp with e-CON (Green)



Item No. SUC-290

Lamp Φ40 Green
Cable Length : 1m
Model : LOUT－24－1G
Maker : Schneider Electric

Lamp with e-CON (Red)



Item No. SUC-199

Lamp Φ40 Red
Cable Length : 1m
Model : LOUT－24－1R
Maker : Schneider Electric

Lamp 5 Colors φ25 (Red/Yellow/Green/Blue/White)



Item No. SUC-534

5 Colors Lamp Φ25
Cable Length 0.4m
Model : MES－502A－RYGBC
Maker : PATLITE
※The color sequence can be rearranged by the customer.

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

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 (㎟)	Finished Outer Diameter(φ㎜)		
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		Green
SUC-326	37104-2165-000FL			1.2-1.6		Blue
SUC-327	37104-2206-000FL			1.6-2.0		Gray

Output Connector (3 Pins) 5 pcs/pack



Pin Assignments

1	24V
2	0V
3	OUT

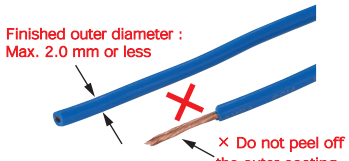
Item No.	Wire Mount Plug 3 – Pin Description	Applicable Wire Chart			Body Color	Cover Color
		AWG No.	Nominal cross section (㎟)	Finished Outer Diameter(φ㎜)		
SUC-328	37103-4080-G00FL	26-28	less than 0.08-0.14	0.6-0.8	Gray	Purple
SUC-329	37103-4101-G00FL			0.8-1.0		Red
SUC-330	37103-3080-000FL	24-26	less 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		Green
SUC-335	37103-2165-000FL			1.2-1.6		Blue
SUC-336	37103-2206-000FL			1.6-2.0		Gray

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.

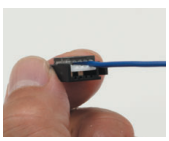


2：Pre-treatment of electrical wires

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).





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.



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.



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

Details

SIO－L22
①SiOt [XAC－061]
②AC Adapter [SUC－261]

SIO－L30
①SiOt [XAC－061]
②AC 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

Details

SIO－L32
①SiOt1 [XAC－064]
②AC Adapter [SUC－261]

SIO－L33
①SiOt1 [XAC－064]
②AC 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

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
①SiOt3 [XAC－065]
②AC Adapter [SUC－261]

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

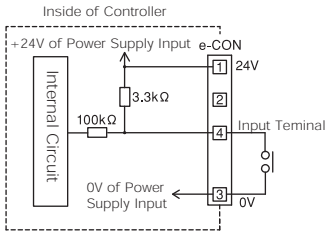
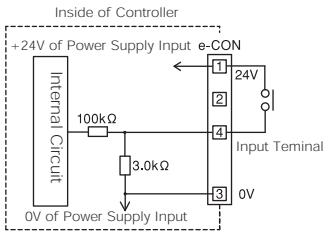
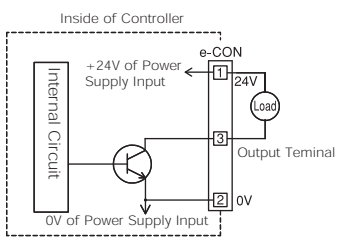
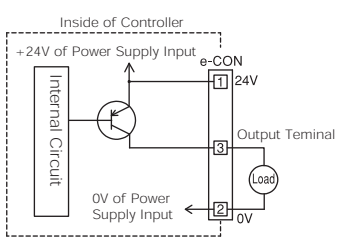
This kit includes a power supply AC100V (AC adapter used).

Specification

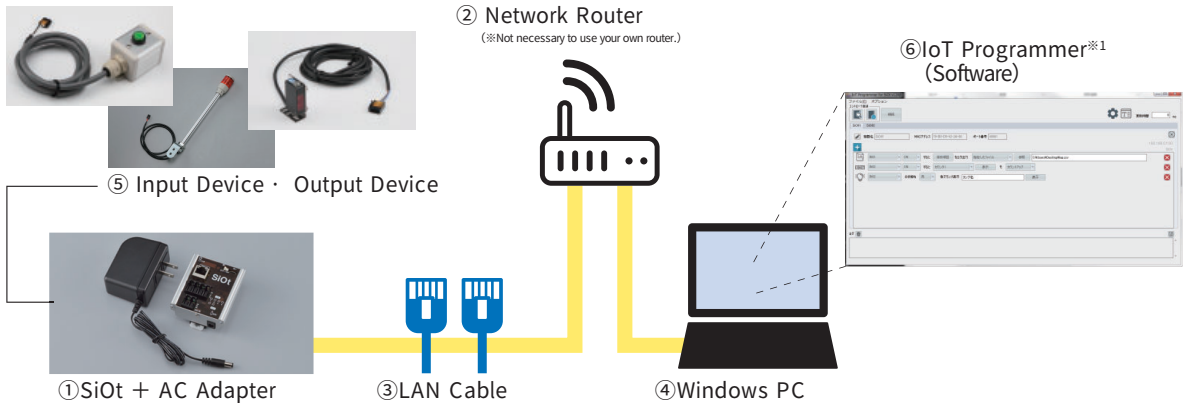
Model	SiOt	SiOt1	SiOt3	SiOt3 PNP
Power supply voltage/capacity※1	DC24V±10% under 0.3A DC Plug 5.5mm×2.1mm			
I/O Pins	Input : 4 Output : 2	Input : 8 Output : 8	Input : 16 Output : 16	Input : 16 Output : 16
Input System	DC24V±10% 7mA/DC24V No-voltage contact input Non-isolated			
	Input response time : about15msec			
	NPN			PNP
Output System	DC24V±10% 100mA/DC24V Open collector output Non-isolated			
	Output response time : OFF→ON、ON→OFF : less than 1 msec			
	NPN			PNP
Connection Specifications	USB2.0 conformity Connector : Micro-B Type			
Conformity Standards	CE			
Condition	Temparature : 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/s2 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			・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			・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/)

Step1

Preparation

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.

Step2

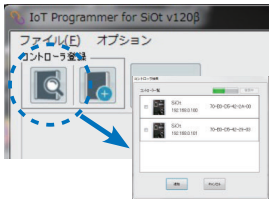
Device Registration

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.



Step3

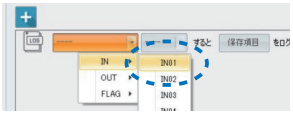
Add Function

6. Add a Function to be processed by the PC at the "+" button.



▼

7. Set up each Function.



Step4

Start of connection

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.



How to use without IoT Programmer

Step 1

Preparation



1.Check that all necessary items are ready.

▼

2.Connect devices as on the previous page connection image.



▼

3.Turn on all power.



Step 2

Communication Set Up

4.Requests a connection to SiOt through Ethernet (socket communication).

▼

5You will receive a reply from SiOt that the connection is complete.

Step 3

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.

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.

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