Feature of System

- The measure of progress for each process can be monitored in real time with Wireless switches (counter switches), and the delay in production line can be grasped immediately.

The maximum interval for receivable signal between wireless switches and receiver is 1 km. *Subject to the environment or obstructions to install.

- One software can be workable with maximum 160 sets of wireless switches.

- An in-company network is used and progress can be checked also away from production lines, such as an office.

- Wireless switches can accumulate the interval (pitch) of the button which operators push, and it deduces actual pitch time.

- Output prospect function can deduce daily output within working hours, and we can realize the delay points in advance.

- In order to achieve target quantity, closing time prospection function and overtime work prospection function can deduce the required working hours, it is easy to make rescheduling and delivery date management.

Variety of Progress management

a. Per operators monitoring : Monitor the details of each operation (Output, closing time, overtime work, etc.)
b. Per production monitoring : Monitor the progress each 30 min or 1 hour per production line.
c. Total monitoring : Monitor the wireless switches (all operations) all together.

Summary of System

1. Monitoring/OP

Manage per operations (per operators), and monitor the present pitch time, output and delay of operation.

Although pitch time was conventionally measured using the stopwatch, but in WPC, wireless switch records the interval (pitch) of the button which an operator pushes, and it deduces actual pitch time.

Since all the data of pitch time is stored, these data can be as property and is useful for discovery of a future improvement points, and a line design (layout).

By grasping the realistic pitch time of the company, it can realize to shorten the time of from the putting the products into production line to manufacture the production smoothly, and this leads to a cost cut.

2. Monitoring/LINE

It is possible to monitor per line as each 30 min or 1 hour. Thanks to this function, it is easy to find out the delay operation immediately.

In addition, it has a function to display the graph of progress each 30 min or 1 hour. Thanks to this function, it is possible to grasp when delay has started as well as searching for the source of delay.

3. Monitoring/A OP

All wireless switches disposed at each operation can be monitored.

In addition, remaining battery power also can be monitored.
Flow of System

PC which has connection with receiver can manage all data from wireless switches. An in-company network (LAN or Wi-Fi) is used and all data can be monitored away from production lines, such as an office.

Set up System

One software can be workable maximum 160 sets of wireless switches. In the case of disposing wireless switches at different floor, the signal from wireless switches is not achievable. Due to this reason, software is requested at each floor. By sharing the database at in-company network, all progress date can be grasped.
POINT 1: “OP (Monitoring/OP)” Monitoring per operations and operators

- Monitor the present pitch time, output and delay of operation per operations and operators.
  By checking the flow of the order of production items, stagnation of item flow can be distinguished easily, and make the points clear to be improved.

- Various “Prospection” function like “closing time”, “Output” and “Overtime work”.
  Individually each operation which is allocated wireless switch can be checked details, and prospect the daily output within working hours by setting in advance. In addition, it prospects the necessary overtime work and closing time in order to achieve the target quantity.
POINT 2: "Monitoring/LINE" Monitoring of production line per 30 min or 1 hour

- Based on the target of daily output, target quantity per 30 min or 1 hour can be calculated per production line automatically, and latest progress can be checked. Since the progress can be checked per 30 min or 1 hour by the graph as well, it catches the timing from which delay began in an instant, and an immediate action is possible for it.

POINT 3: "Monitoring/A OP" All operations can be "Visualization".

- Display all operators that are operating, and delay operator is with red mark. In addition, details of each operations can be checked.
Commodity composition

Full package of the WPC System components

- Base unit <WPCO-001> : 1 set
- Communication cable <RS422> : 1 set
- Barcode scanner <PS-800-P> : 1 set
- Producer function software <Ver.107PUJ> : 1 license
- DVD-ROM for installation : 1 set
- SD card key for authentication : 1 set

Option

- Viewer function software <Ver. 107VUJ>
- Wireless switch <WPCK-002>
- Extension switch cable <WPCK-003>

Specification of each units

Base unit (Main receiver) <WPCO-001>
Main power supply 100V ~ 240V
Communication cable <RS422>
Length of cable: 3m

Wireless switch <WPCK-002>
Main power supply 2 x size AA battery, Alkaline battery or nickel-metal-hydride rechargeable battery
* Battery life may around 2 month
  (Operating hours: 8hours / Pushing switch: 3600 times/day (8sec/each))
  * A battery life may change with operating conditions.
Extension switch cable <WPCK-003>
Length of extension: 3m

Personal computer spec and environment

Recommended hardware requirements. * Check the following items for the personal computer.

- Corresponding OS : Windows XP / Windows7 (32bit, 64bit)
- CPU : Dual-Core / Core i3
- HDD : Built-in HDD more than 50GB
- Memory : 512MB ~ 1GB / 4GB ~ 8GB
- Chipset : 1024 x 768 ・ 1280 x 1024 ・ 1280 x 800 ・ 1366 x 768
- Network server : in-company network LAN with or without cable 《Essential》

※ The WPC system can be operated by using other hardware with performance below requirements in description above, but some trouble may occur according to the condition of personal computer.

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