



P5 Series Human Machine Interface

- High Standards of Noise Immunity and Quality
- Optional Integrated Rear Mount PLC
- Intuitive Software Environment and Aesthetic GUI
- Powerful Programming Features

The **FATEK P5** series provides a high quality and high performance human machine interface with the option of an integrated PLC.

The P5 series represents the high quality and reliability expected in the industrial automation market today. The P5 series also allows the rear mounting of an integrated programmable controller saving space and installation costs. With its intuitive software programming environment and outstanding graphical representation, the P5 series helps create functional and elegant user interfaces.



3 **High Noise Immunity**
Optional Integrated PLC

4 **In-built Termination Resistors for**
RS485/422 Ports
Isolated Communication Ports

5 **Intuitive Programming Software**
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High Noise Immunity



HMIs at industrial sites are often adversely affected by electrical noise from the surrounding installations. This can cause malfunction and lead to injury to persons or property. FATEK has focused on the P5's stability and robustness to provide end users with a reliable HMI product that can operate in harsh conditions.

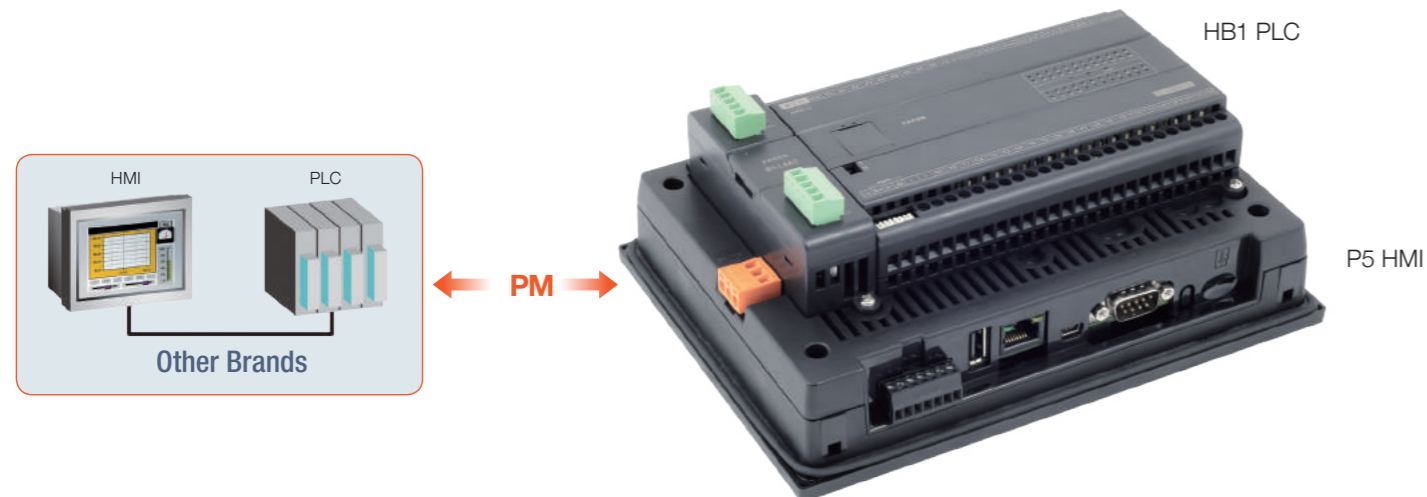
In-built Termination Resistors for RS485/422 Ports



With RS-422/RS-485 communication networks, termination resistors are often required to improve the reliability of communications. External termination resistors can make communication wiring onsite complex. To solve this problem, the P5 provides built-in termination resistor switches. Terminating can be achieved by turning on the switch to connect to termination resistors, or turn off the switch to disconnect the resistors.

Optional Integrated PLC*1

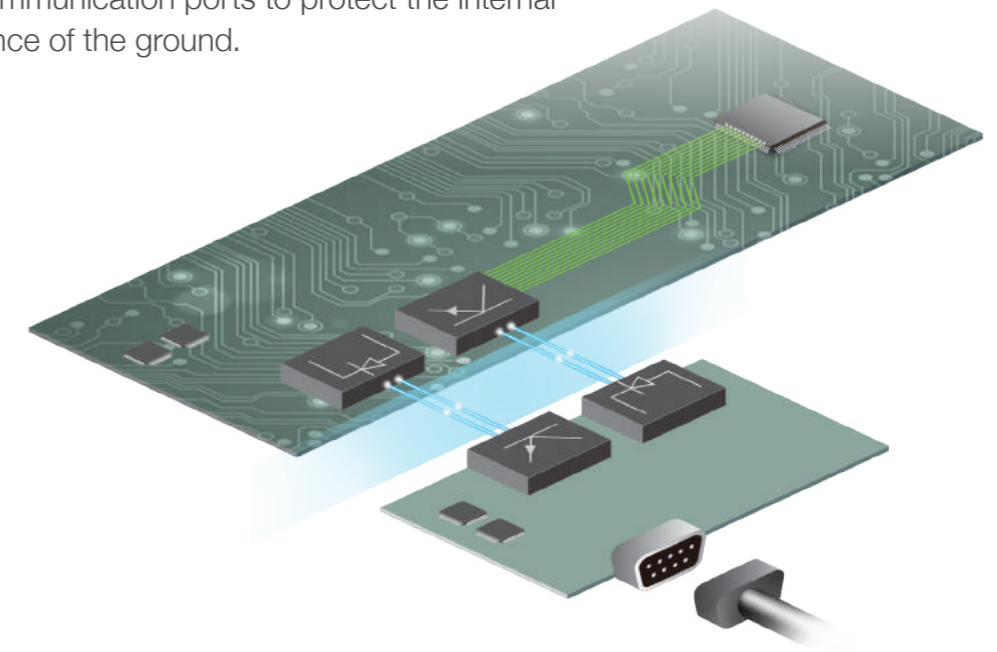
The P5 series provides cableless communications to the FATEK B1 PLC by offering a version that can be mounted onto the back of the P5 HMI. This provides more reliability and improves communication speeds with the added benefit of saving valuable space and installation costs.



*1 : Not supported by 4.3" models

Isolated Communication Ports*2

HMIs are used to communicate with various devices, such as PLCs, Motion Controllers and Inverters. If the connected devices locate at the different voltage levels, a ground potential difference would occur and could cause communication errors or damage to the devices. The P5 HMI provides isolated serial communication ports to protect the internal circuit from any voltage difference of the ground.



*2 : Not supported by 4.3" models

Intuitive Programming Software Environment

1. Toolbar & Shortcut:

Icon-based organized design, enables users to operate what they want efficiently

2. Project Explorer:

Divide functions into 3 categories, collapsible, space-saving

3. Screen List:

Screen preview allows users to access a specific screen quickly

4. Screen Workspace:

What You See Is What You Get

5. Tab Page:

Switch view effortlessly

6. Memory Address:

View the status of memory usage



7. Object List:

Trace every object that the user creates currently

8. User Toolbox:

Drag the customized object into this area, and then you can use it anytime, everywhere

9. Output Message:

Compiling result will be displayed here. Double clicking the error message leads users to review the setting directly

10. Screen Toolbar:

Adjust the proportion of the screen and simulate the displaying status of the objects

11. Ribbon Style:

Change the default color scheme from several Ribbon styles

12. Toolbox:

Wide variety of useful, elegant objects to utilize

Topic 1

Different Ribbon Style, Different Arrangement of Workspace



Topic 2

Use Wizard to Complete Project Setting in Three Steps



Usability

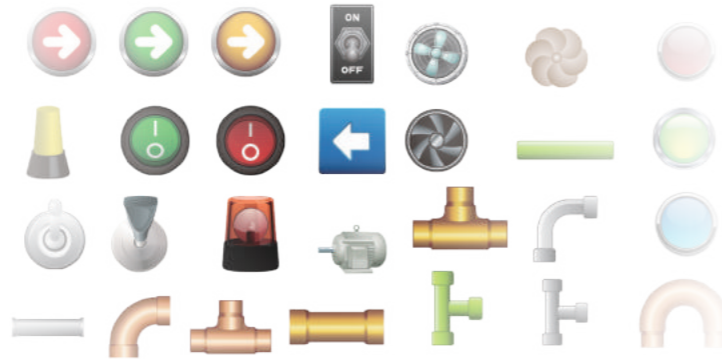
Toolbox

- Provides many useful objects like shapes, meters, charts, buttons etc.
- Utilize them from the Toolbox section to speed up the design time



Image Library

Thousands of industrial images to choose from, or import your own images.



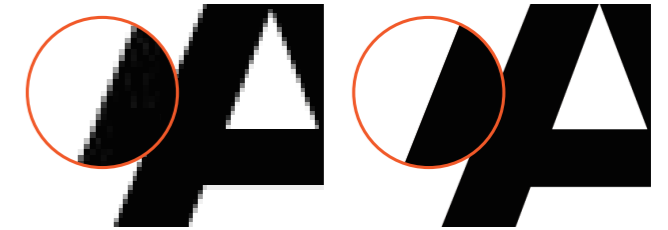
Keypad

You can customize your own style of keypad.



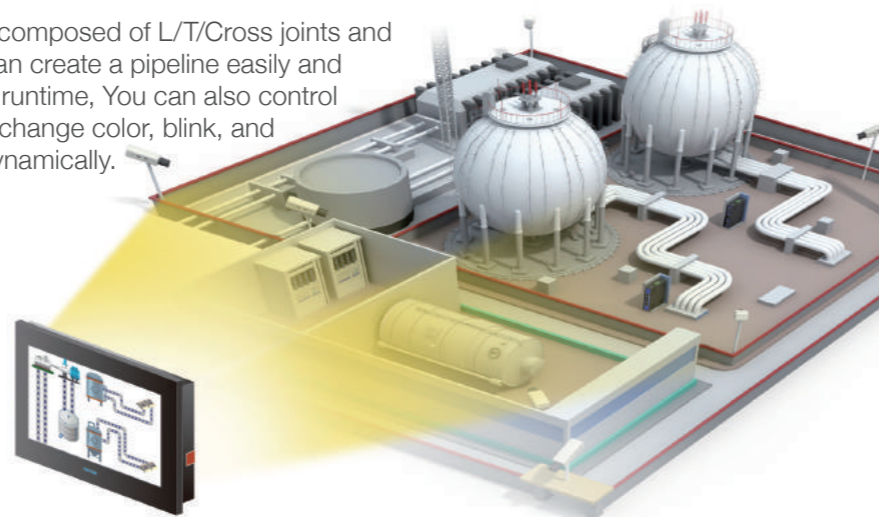
Font

- TrueType font is supported. The font can be scalable and anti-aliasing
- The capacity of font files is minimized, thus minimizing memory usage



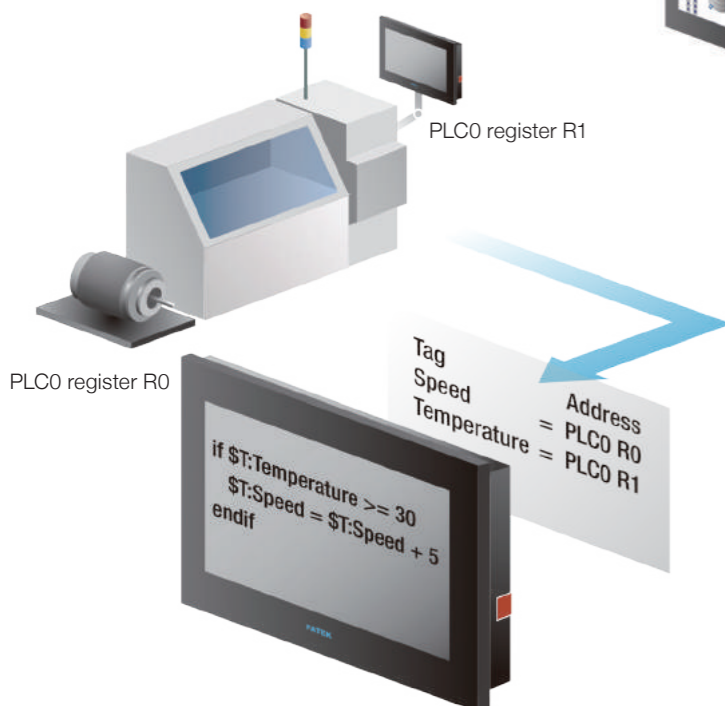
Pipe Line

A pipeline is composed of L/T/Cross joints and pipes. You can create a pipeline easily and efficiently. At runtime, You can also control a pipeline to change color, blink, and flow effect dynamically.



Tag Library

Use the Tag Library to make controller addressing function easy to identify in the objects created. Tag libraries can be imported and exported as CSV files.



Audio Library

Use the Audio Library to play the sound you like when an alarm happens or a button is clicked.



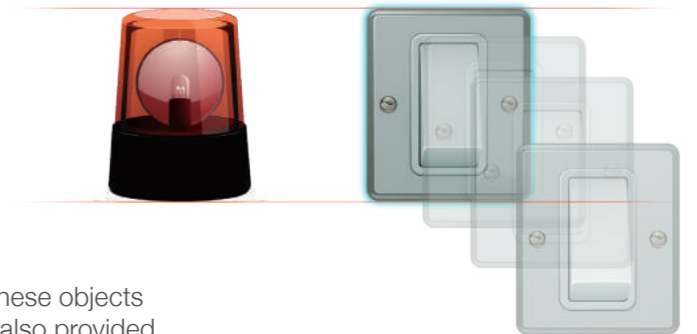
Text Library

Multi-language support satisfies your requirement of localization. You can even change the language setting dynamically at runtime.



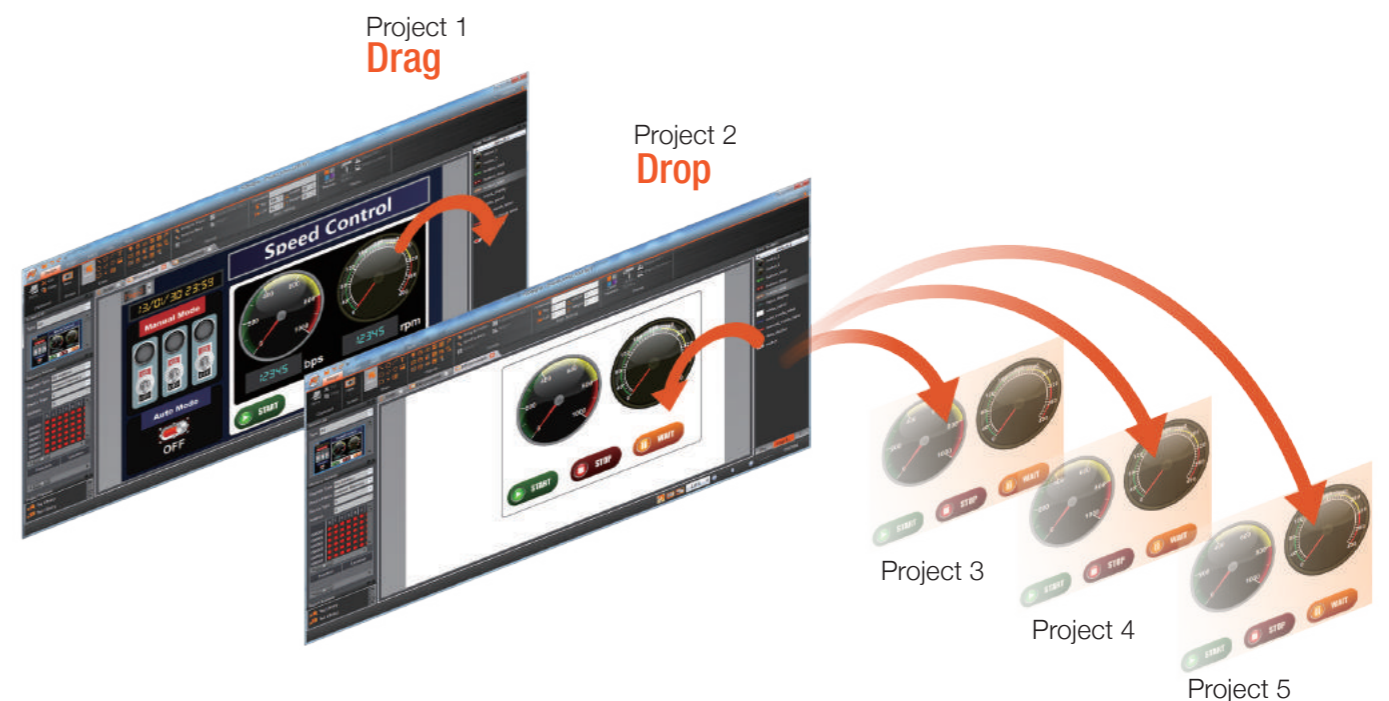
Auto-alignment

Auto-alignment helps users to organize the screen layout easily. Furthermore, the gridlines can be shown or hidden to make the screen workspace clear to see.



User Toolbox

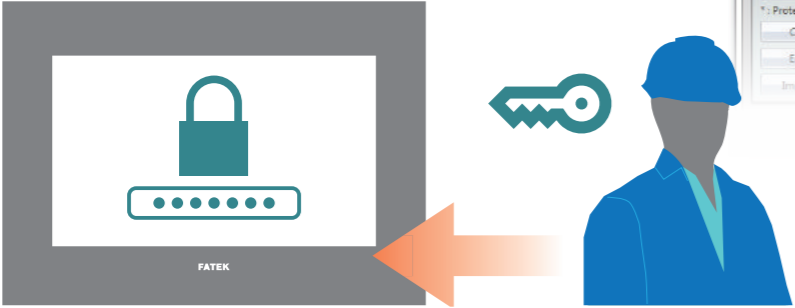
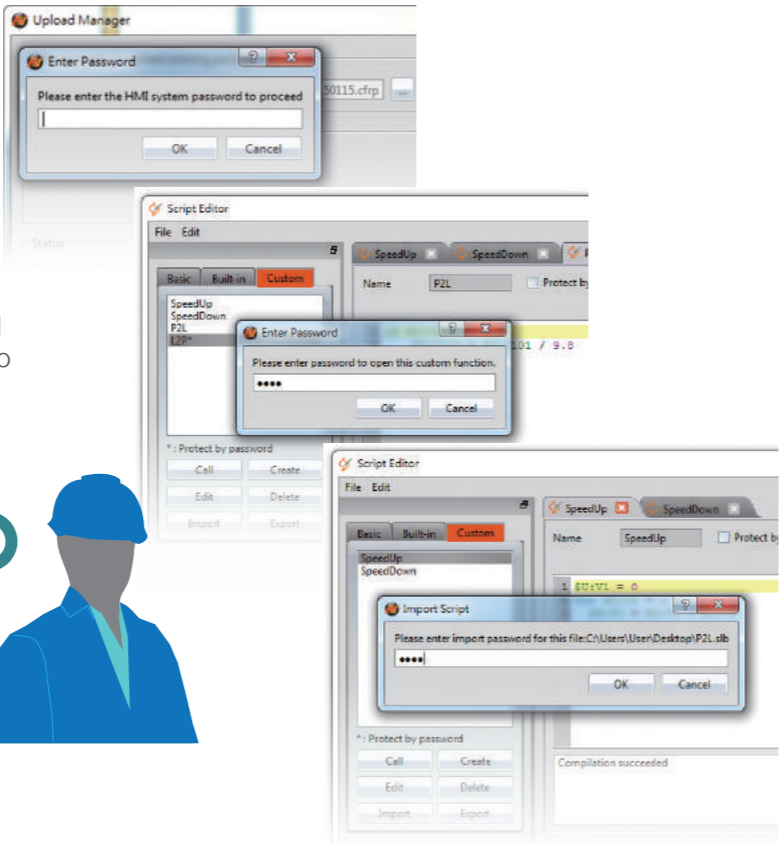
Drag user-defined objects into User Toolbox section, and these objects would become reusable. Export and import functions are also provided, which saves valuable time during program development.



Security and Safety Control

Proprietary Rights Protection

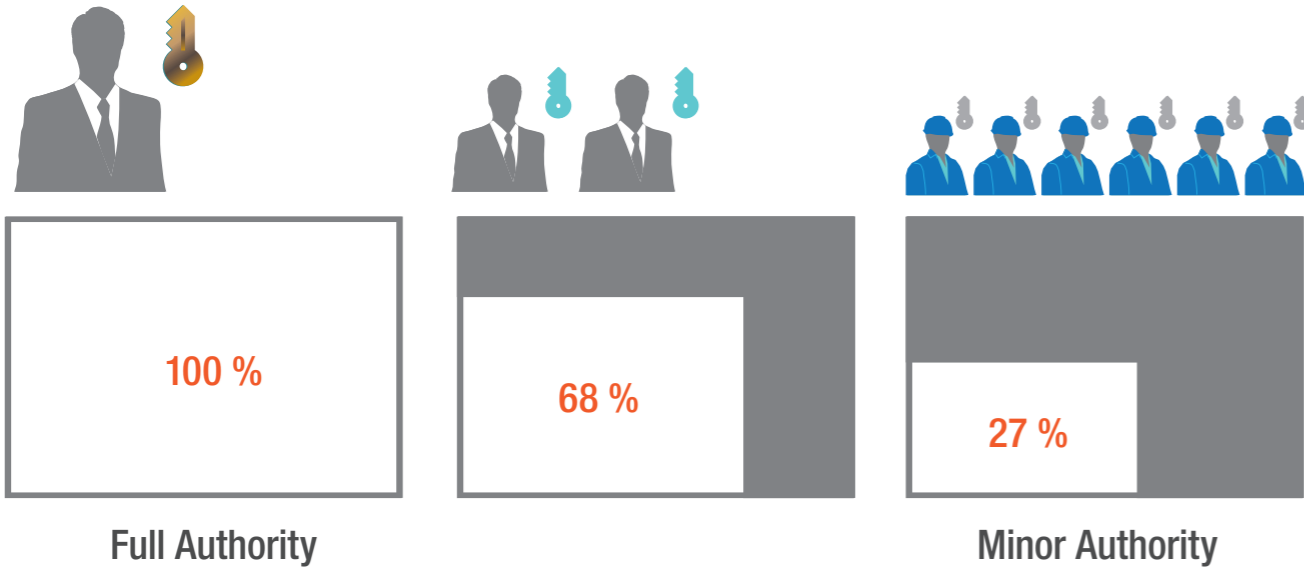
- You can set password for project protection; you need to enter project password to open the project
- Project downloading, uploading and system configuration are prohibited unless users input system password
- The script allows you to design custom functions for your customers. You can also set passwords to these custom functions, so that your customers will be requested to enter passwords when they want to use them or see the source code



Security

Security function provides 16 access levels and 100 user accounts, and each level and user can have different passwords; import and export functions are provided, increasing flexibility and convenience.

For security control, operations for switches, buttons and inputs are banned if operators input incorrect password; objects on HMI screen can even be hidden if operators have no privilege to see the objects.



On-Off Delay

For preventing mistakes in operations, you can set minimum hold time for buttons and switches or operators have to double press the objects to execute the operation.



Update User Accounts / Passwords Via External Storage

To add or edit user accounts on a HMI can cause headaches for production managers. By Function Switch, the P5 series allows users to change user accounts and passwords via external storage.



Alarm, Trend and Data Log

Step2:

When alarm is triggered, operators can see the scrolling text displaying the predefined message on the assigned position, or use the alarm display to see the detailed message; audio can be played to remind the unaware operators.

Step1:

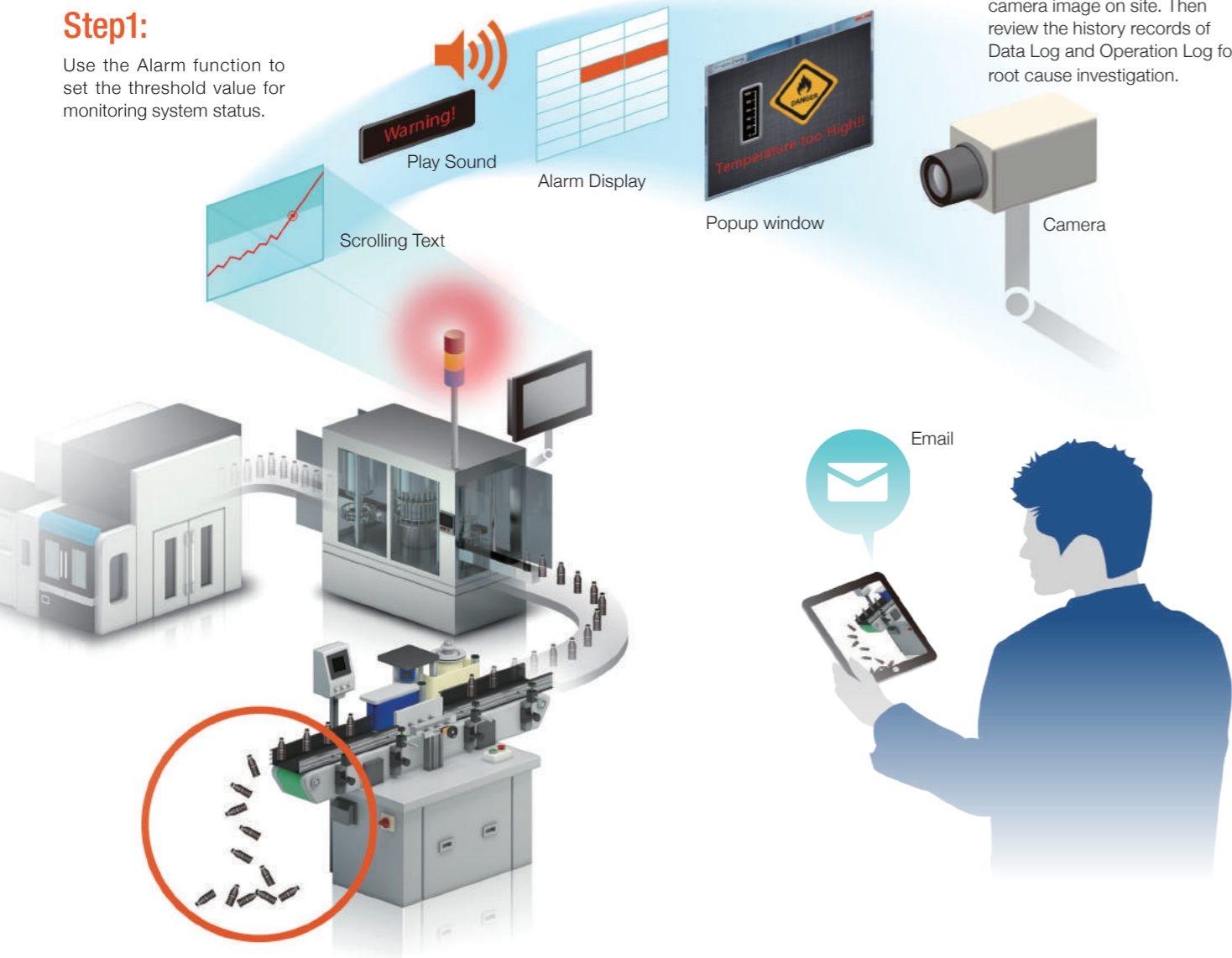
Use the Alarm function to set the threshold value for monitoring system status.

Step3:

Pop up the child window to get a further message or for post-processing.

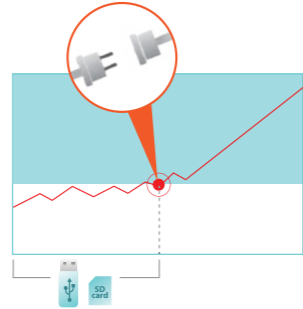
Step4:

User can also receive the email that attached the alarm information and the captured camera image on site. Then review the history records of Data Log and Operation Log for root cause investigation.



Data Log

- A maximum of 64 Data Log groups
- Each group can monitor a maximum of 512 addresses
- You can use the trend chart to observe the variance of data; a user is capable of clearing, zooming in/out, moving left/right/top/down the chart on screen, creating a chart with two Y-axes on screen. Or use historic data table to see the overall information in real-time
- You can decide the event for triggering the data logging and the time interval for every occurrence. Export and import data log as you need
- The source of data set can come from different controllers



Data Backup

The data from Data Log, Alarm and Operation Log can be exported to the assigned location automatically(HMI, microSD card, usb).

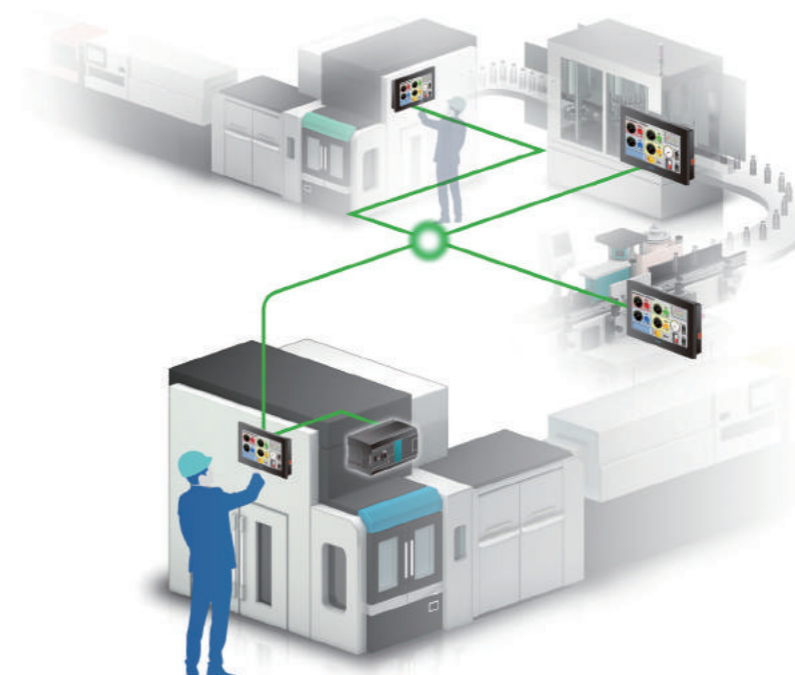
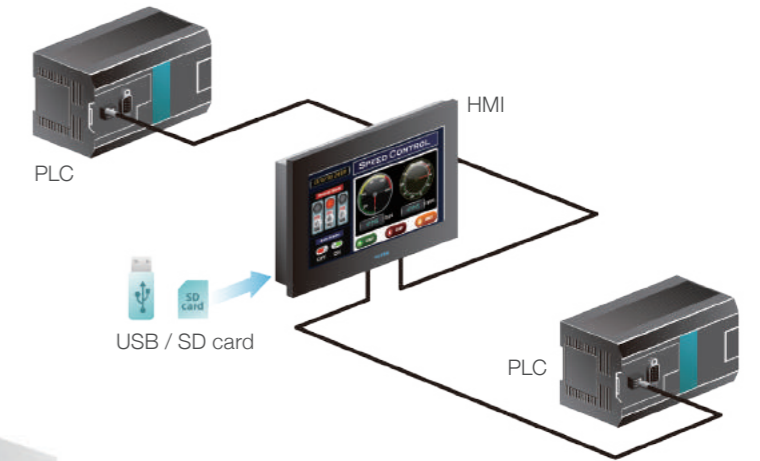
Or enable the ability of data retention in the Data Log, Alarm, Recipe and Operation Log function, and there is no need to worry about the data loss even when power failure happens.

By combining with the Schedule and Script function, the backup timing can be triggered whenever the user wants.

Data Connectivity

Data Transfer

This function enables the ability of communication between HMI and PLC. Users can move data from a predefined source (HMI, PLC, file) to a target address under a user-defined condition.

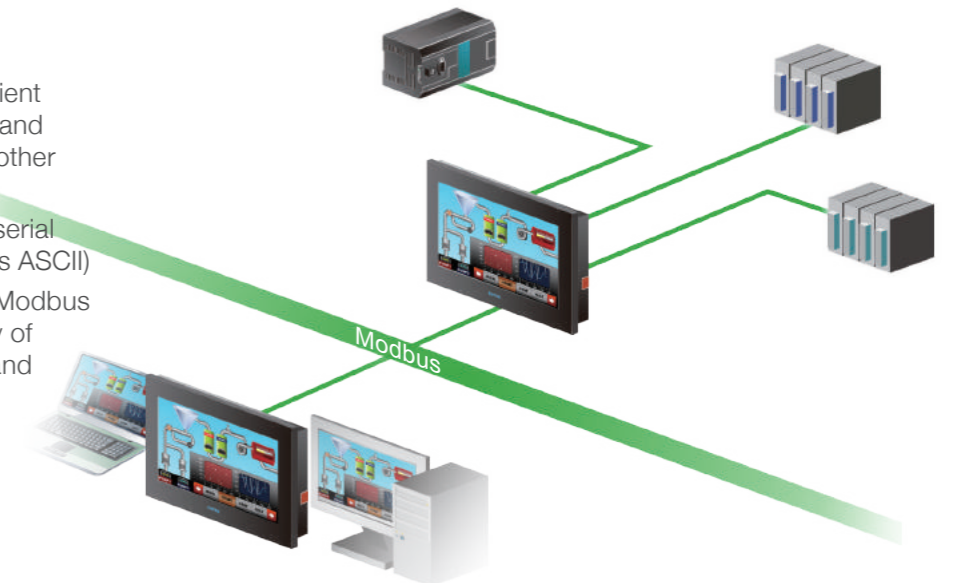


Multi-Link

- PLC connected to Master HMI can be accessed by Slave HMI, Cost Reduced!
- Easy setup, speed up development.

Modbus gateway

- Through Modbus gateway function, client can easily achieve remote monitoring and data collections with SCADA, HMI or other Modbus devices.
- Support Ethernet (Modbus TCP) and serial communication (Modbus RTU/Modbus ASCII)
- Support the data exchange between Modbus protocol and other protocols (a variety of PLCs, server, temperature controller and converter...)
- User-friendly address mapping table.



Remote Monitor and Control

FTP Server

By enabling FTP server on P5 series, you can send and retrieve files between a P5 and a computer. You don't have to enter the factory to access the storage device for file processing.



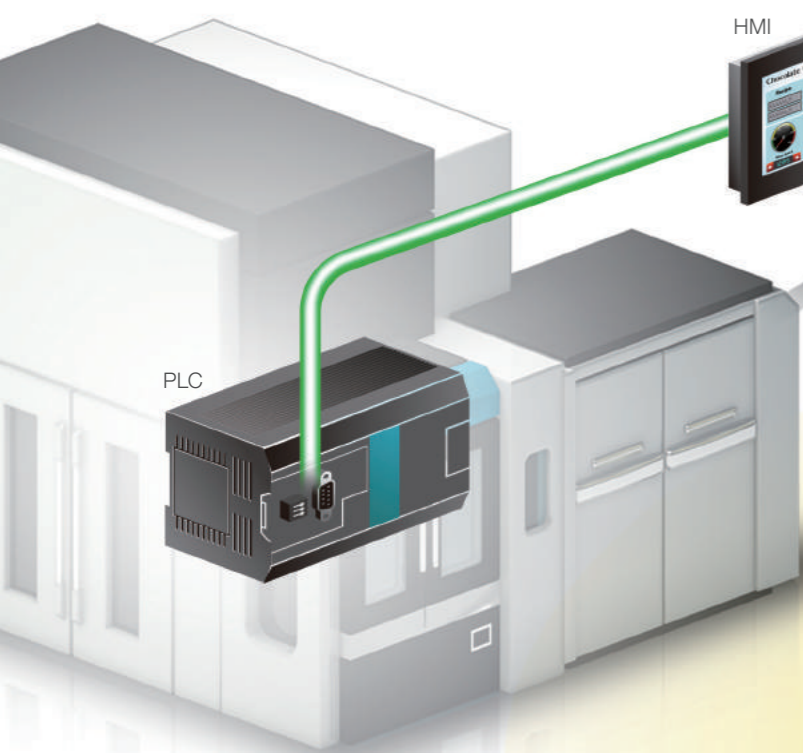
VNC

This will improve engineers' mobility and flexibility and hence promote the efficiency and productivity.



VNC Server

The P5 series supports VNC Server function. Therefore, tablets, personal computers or smart phones can connect to P5 and be used to operate the HMI remotely.



Pass Through

By using Pass Through function, PC can connect to PLC device indirectly, and then you can make adjustments for the device (Eg: WinProladder).



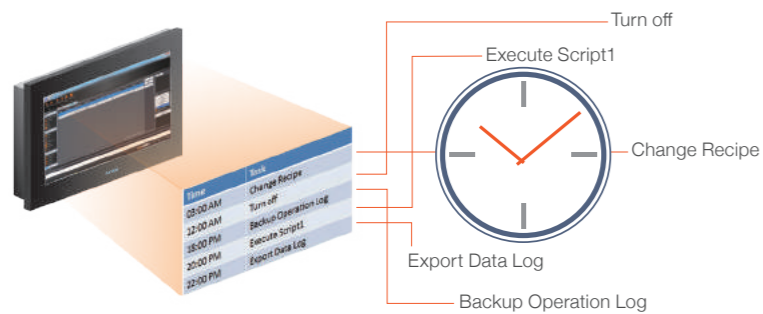
Remote Configuration

As an added convenience employees in the office can use Remote Configuration to change the setting of HMI.

Powerful Programming Features

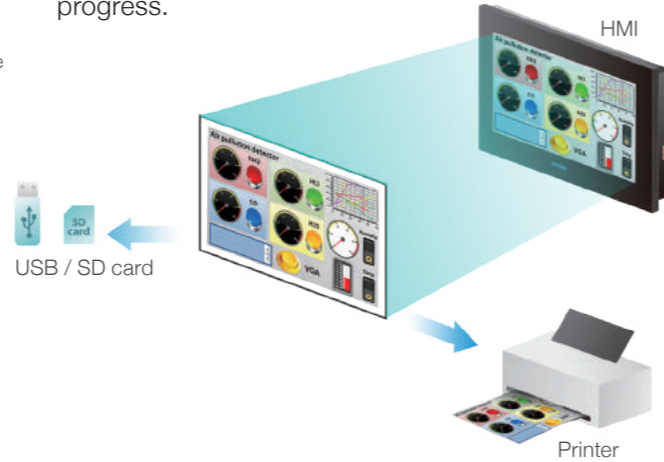
Schedule

Up to 64 schedules could be set. This function allows users to trigger event at a predefined time, or change schedule date at runtime. The event includes setting/resetting a bit, writing a word and executing script.



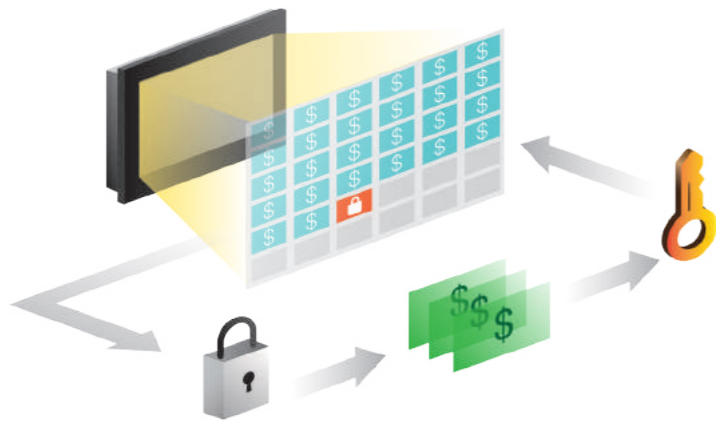
Print function

- The project image can be printed and stored in to HMI, SD cards, and USB storage devices.
- The image range is selectable, and the image can also be rotated and reversed.
- User can use Function Switch or a Script to print out the screen image, and also can cancel your printing if needed while the printing is under progress.



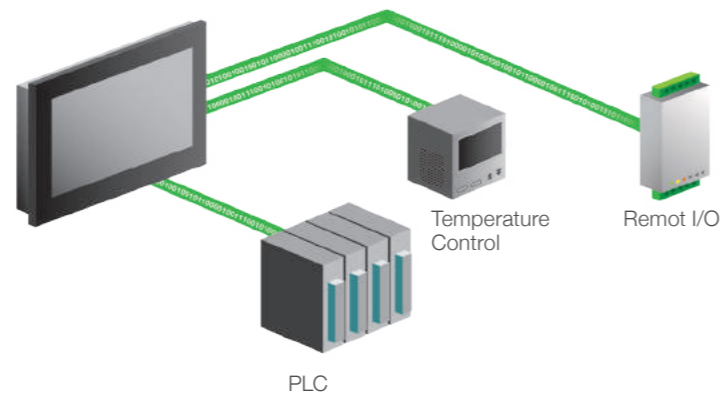
Pay by Installments

- Static mode provides up to 48 periods, and each deadline can be different intervals between each one.
- Provides runtime modify function for set up machine without re-downloading project.
- Dynamic mode does not need to decide expired date in advance.
- Just use the key and the password generator to generate a password that contains the next expiration date.



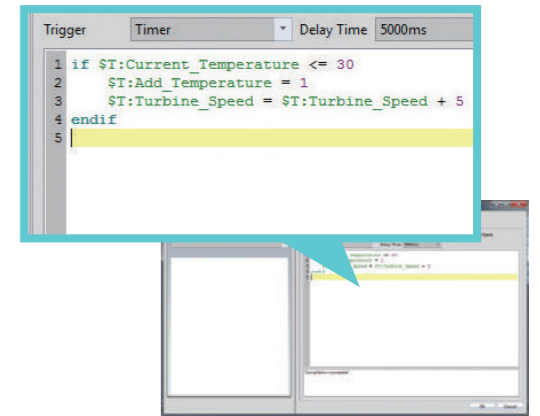
User-defined Protocol

- When the device driver is not supported, users can communicate and access device data through user-defined protocol.
- This function is also supported in script.



Script

- User can flexibly use Script to complete a complex task that cannot easily be accomplished with general objects. The Script functions include logical judgments, numerical computations, loop executions, string manipulation, communications between devices etc.
- Support user-defined functions, which can be imported and exported for the usage of future project designs, making it time-saving and adding flexibility
- Real-time display compiling result by which the user can correct contents immediately
- Provide password protection for engineers to protect their intellectual property



Recipe

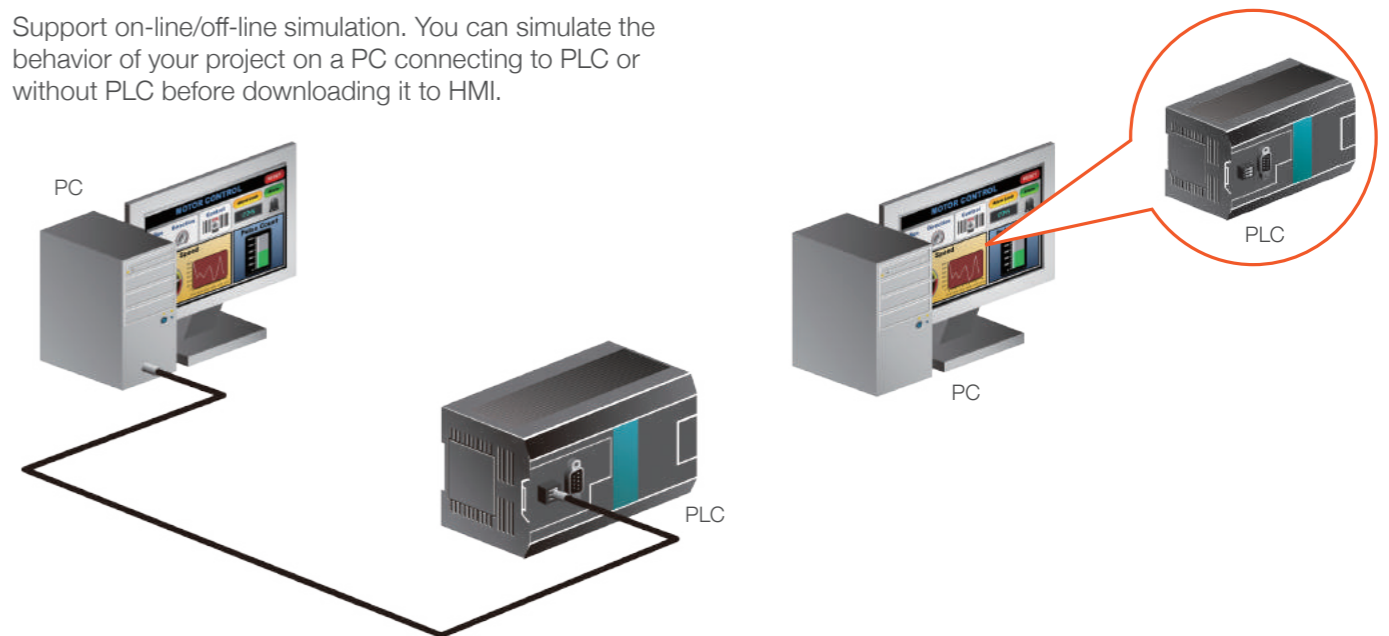
- With Recipe function, you can store a set of verified data in HMI, and download to PLC whenever necessary
- The recipe data can be from a csv file, so operators do not need to enter parameters manually
- A built-in recipe editor for users to edit the contents
- Useful Recipe objects for users to choose from
- Add/Edit recipe at runtime

| | Milk | Water | Butter | Chocolate | Flour | Yeast | Egg |
|-------|------|-------|--------|-----------|-------|-------|-----|
| Cake1 | 50 | 75 | 1.3 | 2 | 100 | 0.1 | 2.4 |
| Cake2 | 40 | 100 | 0.7 | 1 | 200 | 0.05 | 1.2 |
| Cake3 | 50 | 60 | 0.6 | 2 | 120 | 0.13 | 0.8 |



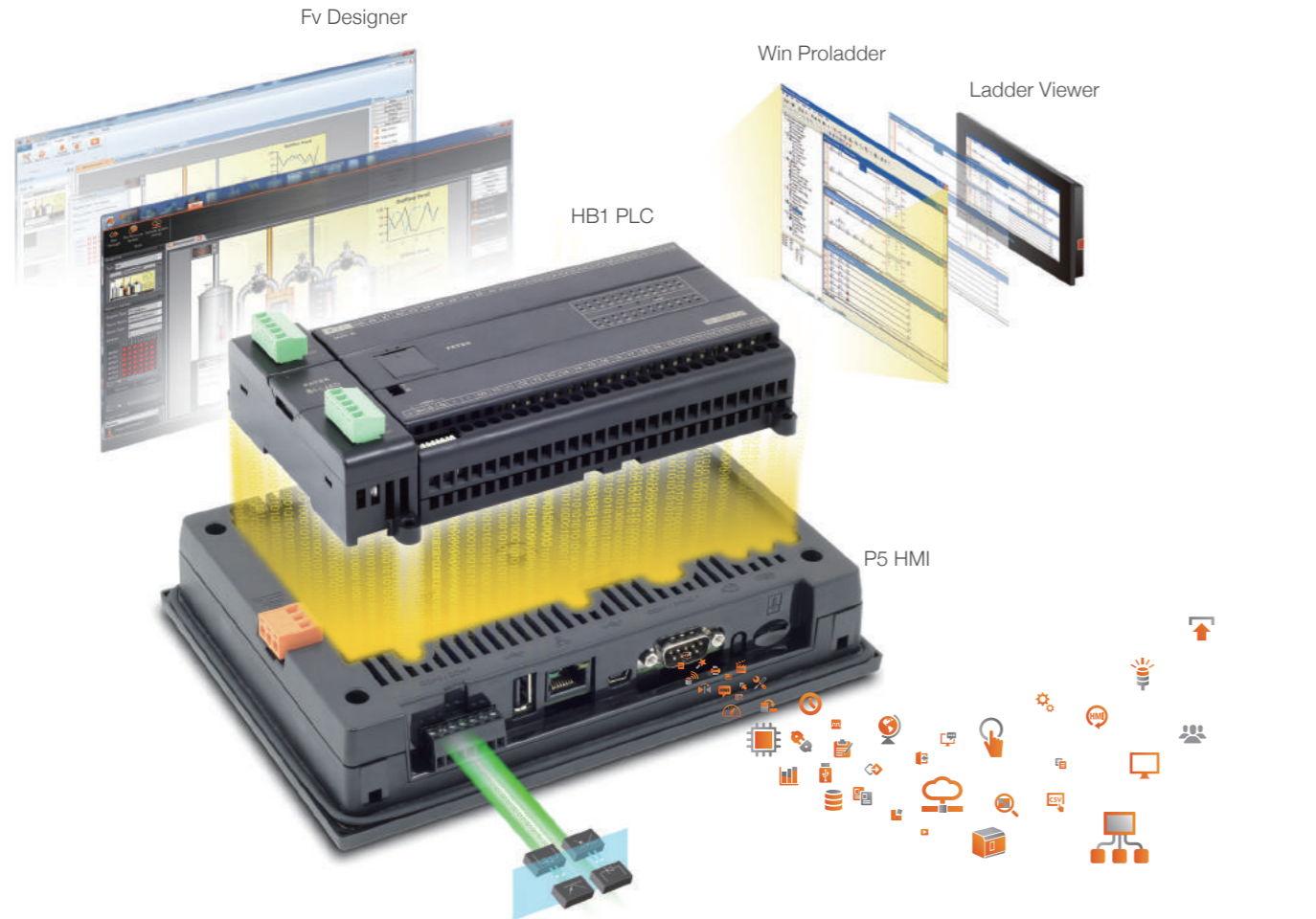
Simulation

Support on-line/off-line simulation. You can simulate the behavior of your project on a PC connecting to PLC or without PLC before downloading it to HMI.



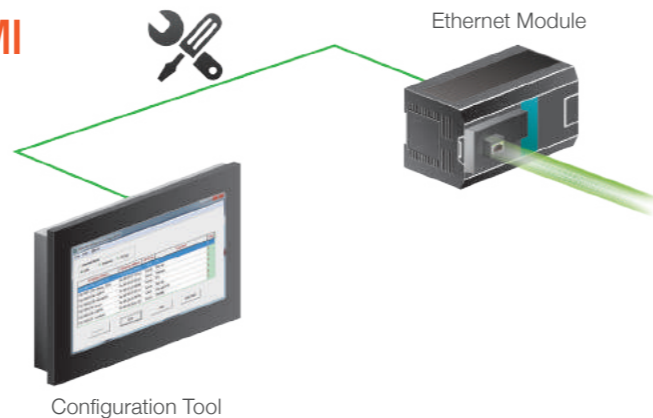
Integrated HMI + PLC

FATEK HMI and PLC solution is highly integrated system. The hardware has high noise immunity. The internal communication is optimized and use highest speed baudrate. There are many useful and powerful PLC software features built-in HMI. It helps user to maintain the system conveniently and quickly.



Configure the PLC Ethernet Module on HMI

P5 HMI provides built-in Ethernet Module Configuration Tool. User can configure the ethernet module on HMI directly.



On-line Monitoring PLC Ladder Program

The PLC ladder program is displayed on the screen. Engineers can check machine status and find errors quickly.



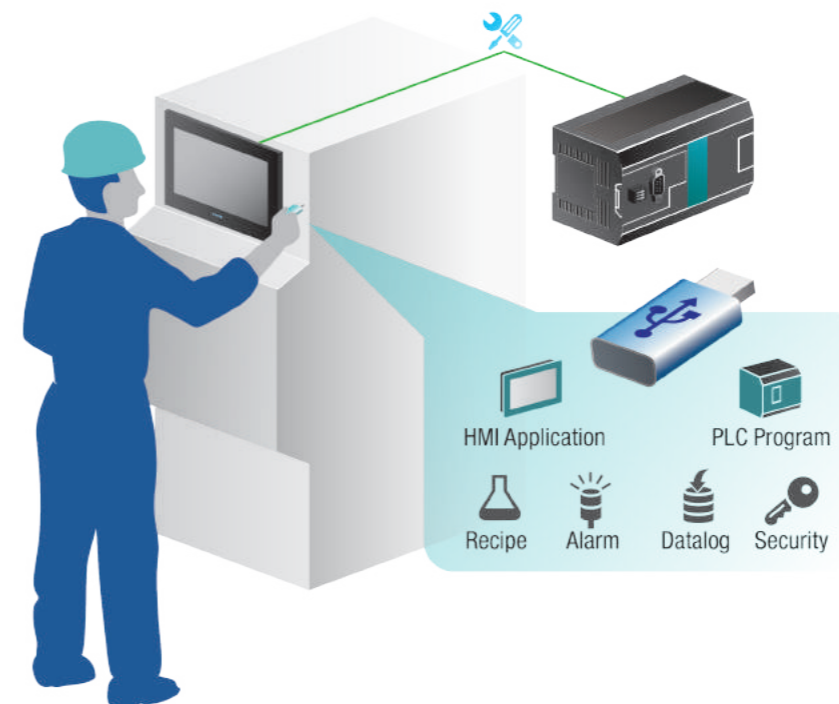
Import Tags from WinProladder Project

Engineers can import tags from the WinProladder projects when they develop HMI projects. This avoids repetitive typing of tags information, thus greatly saving engineering time and improving work efficiency.



USB Flash Drive Maintenance

- Site personnel need not use PC to maintain the equipment. He can just use usb flash drive to upgrade PLC ladder program and HMI application.
- In addition to this, user also can access datalog and alarm data, modify recipe parameters, and change security password by using usb flash drive.



Specification



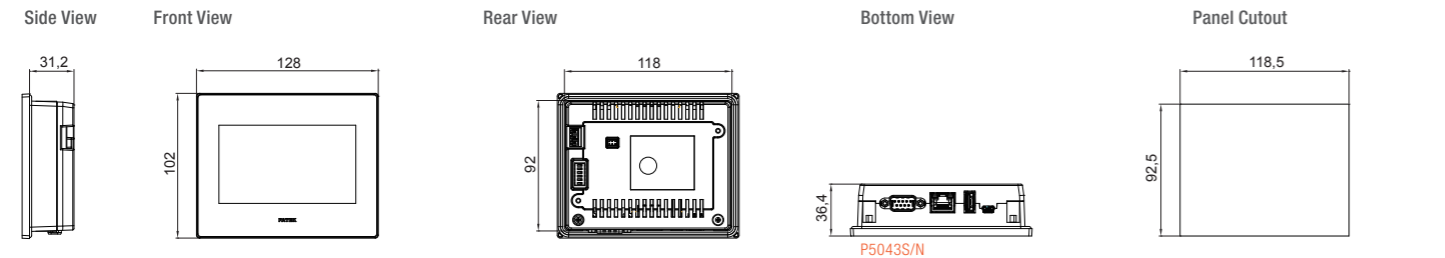
| Model | P5043S | P5043N | P5070S | P5070N |
|-------------------------------------|--|----------------------------|---|--------|
| Display | TFT LCD, 16.7M Colors | | | |
| | 4.3" (16:9) | | 7.0" (16:9) | |
| | 480 X 272 | | 800 X 480 | |
| | LED, 500nits | | LED, 400nits | |
| | 30,000 Hrs. | | | |
| Touch | 4-wire Resistive Film | | | |
| | | | | |
| Memory | 256MB | | 256MB | |
| | 128MB | | 128MB | |
| Internal User Storage | | 64MB | | |
| Project Memory | | 32MB | | |
| Real-time Clock | | Built-in | | |
| I/O Port | Connector: D-Sub 9-Pin COM1: RS-232 (TXD, RXD) COM2: RS-422/485 COM3: RS-485 | | Connector: D-Sub 9-Pin COM1: RS-232 (TXD, RXD, RTS, CTS) | |
| | --- | | Connector: Pluggable Terminal Block COM3: RS-422/485(Isolation) COM4: RS-485(Isolation) Support MPI | |
| | --- | | | |
| | --- | | 10M/100M | |
| | USB2.0 Type-A (Host)x1 USB2.0 Type mini-B (Device)x1 | | | |
| | --- | | --- | |
| | --- | | --- | |
| | HB1 main units | | HB1 main units + B1 extension modules | |
| | Yes (For RS-422/485) | | | |
| | Power | 24Vdc±20% (Isolated Power) | | |
| 0.35A@24VDC | | 0.4A@24VDC | | |
| 50MΩ at 500VDC | | | | |
| Front Panel: IP65 / Rear Case: IP20 | | | | |
| Environment | 0 ~ 50°C | | | |
| | -20 ~ 60°C | | | |
| | 10%~90%@ 40°C (non-condensing) | | | |
| | AC500V/20mA/1 Min. (between charger & FG terminals) | | | |
| | 5 to 9Hz Half-amplitude: 3.5mm 9 to 150 Hz Constant Acceleration: 19.6m/s ² (2G) 3 directions of X, Y, Z: 10times (IEC61131-2 complaints) | | | |
| | 1000Vp-p, width 1us, rising time 1ns | | | |
| | Below 100Ω | | | |
| | 118.5 x 92.5 (mm) | | 191.5 x 137.5 (mm) | |
| | 128.0 x 102.0 x 36.4 (mm) | | 201.0 x 147.0 x 38.3 (mm) | |
| | 215 (g) | | 235 (g) | |
| 610 (g) | | 630 (g) | | |
| CE, UL | | | | |



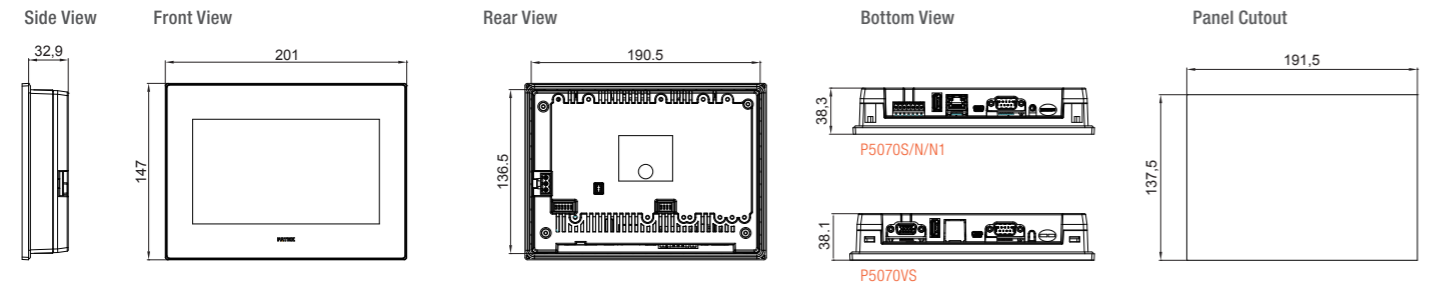
| Model | P5070N1 | P5070VS | P5102S | P5102N | P5102N1 | P5102VS |
|--|---------|---|---------------------------|---|---------|---|
| TFT LCD, 16.7M Colors | | | | | | |
| 7.0" (16:9) | | | 10.2" (16:9) | | | |
| 800 X 480 | | | 800 X 480 | | | |
| LED, 400nits | | | LED, 350nits | | | |
| 30,000 Hrs. | | | | | | |
| 4-wire Resistive Film | | | | | | |
| 256MB | | | 256MB | | | |
| 128MB | | | 128MB | | | |
| 64MB | | | | | | |
| 32MB | | | | | | |
| Built-in | | | | | | |
| Connector: D-Sub 9-Pin COM1: RS-232 (TXD, RXD, RTS, CTS) | | Connector: D-Sub 9-Pin COM1: RS-232 (TXD, RXD) COM2: RS-422/485 COM3: RS-485 | | Connector: D-Sub 9-Pin COM1: RS-232 (TXD, RXD, RTS, CTS) | | Connector: D-Sub 9-Pin COM1: RS-232 (TXD, RXD) COM2: RS-422/485 COM3: RS-485 |
| Connector: Pluggable Terminal Block COM3: RS-422/485 (Isolation) COM4: RS-485 (Isolation) Support MPI | | --- | | Connector: Pluggable Terminal Block COM3: RS-422/485 (Isolation) COM4: RS-485 (Isolation) Support MPI | | --- |
| --- | | Connector: D-Sub 15-Pin VGA Input (Resolution fix in 800x600) | | --- | | Connector: D-Sub 15-Pin VGA Input (Resolution fix in 800x600) |
| 10M/100M | | --- | | 10M/100M | | 10M/100M |
| USB2.0 Type-A (Host)x1 USB2.0 Type mini-B (Device)x1 | | | | | | |
| Yes | | --- | | --- | | Yes |
| Yes | | --- | | --- | | Yes |
| HB1 main units + B1 extension modules | | | | | | |
| Yes (For RS-422/485) | | | | | | |
| 24Vdc±20% (Isolated Power) | | | | | | |
| 0.4A@24VDC | | 0.46A@24VDC | | 0.42A@24VDC | | 0.48A@24VDC |
| 50MΩ at 500VDC | | | | | | |
| Front Panel: IP65 / Rear Case: IP20 | | | | | | |
| 0 ~ 50°C | | | | | | |
| -20 ~ 60°C | | | | | | |
| 10%~90%@ 40°C (non-condensing) | | | | | | |
| AC500V/20mA/1 Min. (between charger & FG terminals) | | | | | | |
| 5 to 9Hz Half-amplitude: 3.5mm 9 to 150 Hz Constant Acceleration: 19.6m/s ² (2G) 3 directions of X, Y, Z: 10times (IEC61131-2 complaints) | | | | | | |
| 1000Vp-p, width 1us, rising time 1ns | | | | | | |
| Below 100Ω | | | | | | |
| 191.5 x 137.5 (mm) | | | 259.5 x 201.5 (mm) | | | |
| 201.0 x 147.0 x 38.3 (mm) | | | 271.5 x 213.5 x 44.9 (mm) | | | |
| 650 (g) | | 630 (g) | | 1340 (g) | | 1360 (g) |
| 1380 (g) | | 1360 (g) | | 1380 (g) | | 1360 (g) |
| CE, UL | | CE | | CE, UL | | CE |

Dimensions

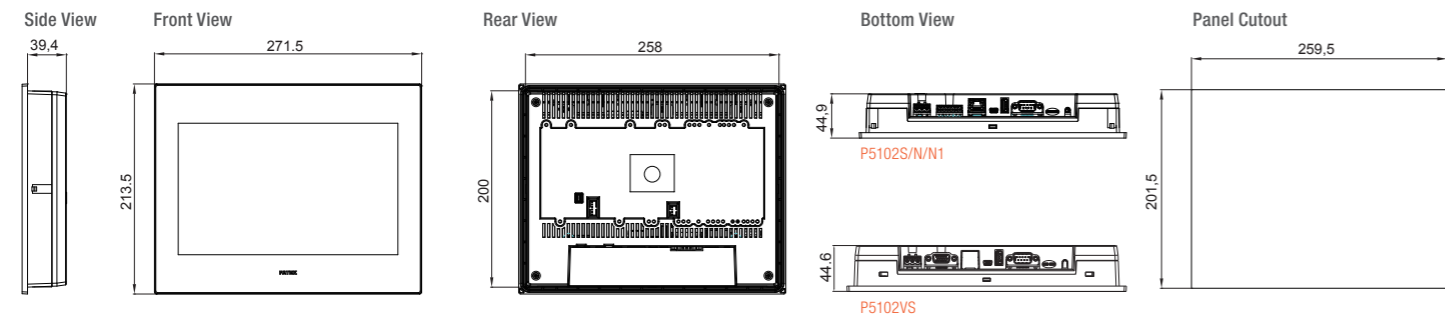
P5043



P5070



P5102



P5 Accessories

| Item Name | Model | Description |
|-------------------------|-------------------|---|
| Nameplate | P5NP043 | Nameplate for P5043S/N |
| | P5NP070 | Nameplate for P5070S/N/N1/VS |
| | P5NP102 | Nameplate for P5102S/N/N1/VS |
| USB 1.8m download cable | USBA-MINIB-180 | 1.8m USB mini B type to USB A type download cable |
| Communication Cable | FBs-232P0-9FR-200 | Mini-DIN 4M to DB9F 90° communication cable, (FBs main unit Port 0 RS232 connect to DB9M), Length 200cm |
| Connector | P5CC070 | 7-pin screw terminal block |
| | P5PC070 | 7-pin spring terminal block |
| | HMPC043 | Power Connector for P5043S/N |
| | HMPC070 | Power Connector for P5070S/N/N1/VS, P5102S/N/N1/VS |
| Optional | HMPC043H | Power Connector for P5043S/N (horizontal wire entry) |
| | HMPC070H | Power Connector for P5070S/N/N1/VS, P5102S/N/N1/VS (horizontal wire entry) |

Fv RunTime

| Model | I/O Tags | Links |
|--------------------|----------|-------|
| IGU-FvRT-0150-L002 | 150 | 2 |
| IGU-FvRT-0300-L004 | 300 | 4 |
| IGU-FvRT-0600-L006 | 600 | 6 |
| IGU-FvRT-0900-L009 | 900 | 9 |

| Model | I/O Tags | Links |
|--------------------|----------|-------|
| IGU-FvRT-1200-L012 | 1200 | 12 |
| IGU-FvRT-1500-L016 | 1500 | 16 |
| IGU-FvRT-3000-L016 | 3000 | 16 |
| IGU-FvRT-5000-L016 | 5000 | 16 |
| IGU-FvRT-9999-L016 | 9999 | 16 |

HB1 & B1 Options

| Item Name | Model | Specifications | |
|---|-----------------------|---|---|
| Main Units | HB1-10MB ◇ 25-D24S | 6 point 24VDC digital input(4 points 50KHz, 2 points total 5KHz), 4 point relay output or transistor output(2 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-14MB ◇ 25-D24S | 8 point 24VDC digital input(4 points 50KHz, 4 points total 5KHz), 6 point relay output or transistor output(2 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-20MB ◇ 25-D24S | 12 point 24VDC digital input(6 points 50KHz, 6 points total 5KHz), 8 point relay output or transistor output(4 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-24MB ◇ 25-D24S | 14 point 24VDC digital input(8 points 50KHz, 6 points total 5KHz), 10 point relay output or transistor output(4 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-32MB ◇ 25-D24S | 20 point 24VDC digital input(8 points 50KHz, 8 points total 5KHz), 12 point relay output or transistor output(6 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-40MB ◇ 25-D24S | 24 point 24VDC digital input(8 points 50KHz, 8 points total 5KHz), 16 point relay output or transistor output(6 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-48MB ◇ 25-D24S | 28 point 24VDC digital input(8 points 50KHz, 8 points total 5KHz), 20 point relay output or transistor output(8 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| | HB1-60MB ◇ 25-D24S | 36 point 24VDC digital input(8 points 50KHz, 8 points total 5KHz), 24 point relay output or transistor output(8 points 50KHz), build-in HMI port(back)+RS232+RS485 communication ports, left side is expandable 1-2 modules, right side is expandable up to 128 I/O points, built-in RTC and with detachable terminal block | |
| Right Side Expansion Modules | DIO Expansion Modules | B1-4Y ◇ S | 4 points relay or transistor output |
| | | B1-8XS | 8 points 24VDC digital input |
| | | B1-8Y ◇ S | 8 points relay or transistor output |
| | | B1-8XY ◇ S | 4 points 24VDC digital input, 4 points relay or transistor output |
| | | B1-16XS | 16 points 24VDC digital input |
| | | B1-16Y ◇ S | 16 points relay or transistor output |
| | | B1-16XY ◇ S | 8 points 24VDC digital input, 8 points relay or transistor output |
| | | B1-24XY ◇ S | 14 points 24VDC digital input, 10 points relay or transistor output |
| | B1-40XY ◇ S | 24 points 24VDC digital input, 16 points relay or transistor output | |
| AIO Modules | B1-2ADS | Non-Isolated 2 channels, 12-bit analog output module(-10~10V, 0~10V or -20~20mA, 0~20mA) | |
| | B1-6ADS | Non-Isolated 6 channels, 12-bit analog input module (-10~10V, 0~10V or -20~20mA, 0~20mA) | |
| Left Side Expansion Modules | AIO Modules | B1-L2DAS | 2 channels, 12-bit analog output module (0~10V or 0~20mA) |
| | | B1-L4ADS | 4 channels, 12-bit analog input module (0~10V or 0~20mA) |
| | | B1-L2A2DS | 2 channels, 12-bit analog input + 1 channel, 12-bit analog output combo analog module (0~10V or 0~20mA) |
| | | B1-L4NTCS | 4 channels, NTC temperature input module, 12-bit resolution, measuring range 100Ω~100KΩ |
| Communication Modules | B1-CM2S | 1 port RS232(Port4) communication module | |
| | B1-CM5S | 1 port RS485(Port4) communication module | |
| | B1-CM22S | 2 ports RS232 communication module | |
| | B1-CM55S | 2 ports RS485 communication module | |
| | B1-CM25S | 1 port RS232(Port1) + 1 port RS485(Port2) communication module | |
| General Purpose Communication Converter | FBs-CM25C | General purpose RS232 to RS485/RS422 communication interface converter with photocouple isolation | |
| | FBs-CM5R | General purpose RS485 repeater with photocouple isolation | |
| | FBs-CM5H | General purpose 4 ports RS485 HUB with photocouple isolation, RS485 can be connected as star connection | |
| Communication Cable | FBs-U2C-MD-180 | Communication converter cable with standard USB AM connector to RS232 Mini-DIN 4M connector (used in standard PC USB to FBs main unit Port0 RS232), length 180cm | |
| | FBs-232P0-9F-150 | Mini-DIN 4M to DB9F communication cable (FBs main unit Port 0 RS232 connect to standard DB9M), length 150cm | |
| | FBs-232P0-9M-400 | Mini-DIN 4M to DB9M communication cable (FBs main unit Port 0 RS232 connect to standard DB9F), length 400cm | |
| | FBs-232P0-MD-200 | Mini-DIN 4M to Mini-DIN 4M communication cable (FBs main unit Port 0 RS232 connect to FBs-PEP/PEPR), length 200cm | |
| | FBs-232P0-MDR-200 | Mini-DIN 4M to 90° Mini-DIN 4MM communication cable(FBs main unit Port0 RS232 connect to FBs-PEP/PEPR), length 200cm | |

◇ : R - Relay output, T - Transistor Sink(NPN) output, J - Source (PNP) output

△ : 5-built in 1 communication port (RS485) and with 1 programming port to communicate with P5 HMI

25- built-in 2 communication ports (RS232 + RS485) and with 1 programming port to communicate with P5 HMI

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