

Touching for the future



Operator terminals matching your specific needs

The PWS-series offers valuable HMI functionality at an affordable level. The series include keypad and touch screen interfaces and is available in seven different sizes from 3 to 10.4 inches. Offering three levels of functionality – Standard, Plus and Network — the PWS-series enables you to select and pay for what level of HMI technology you need.

Everything for your HMI running

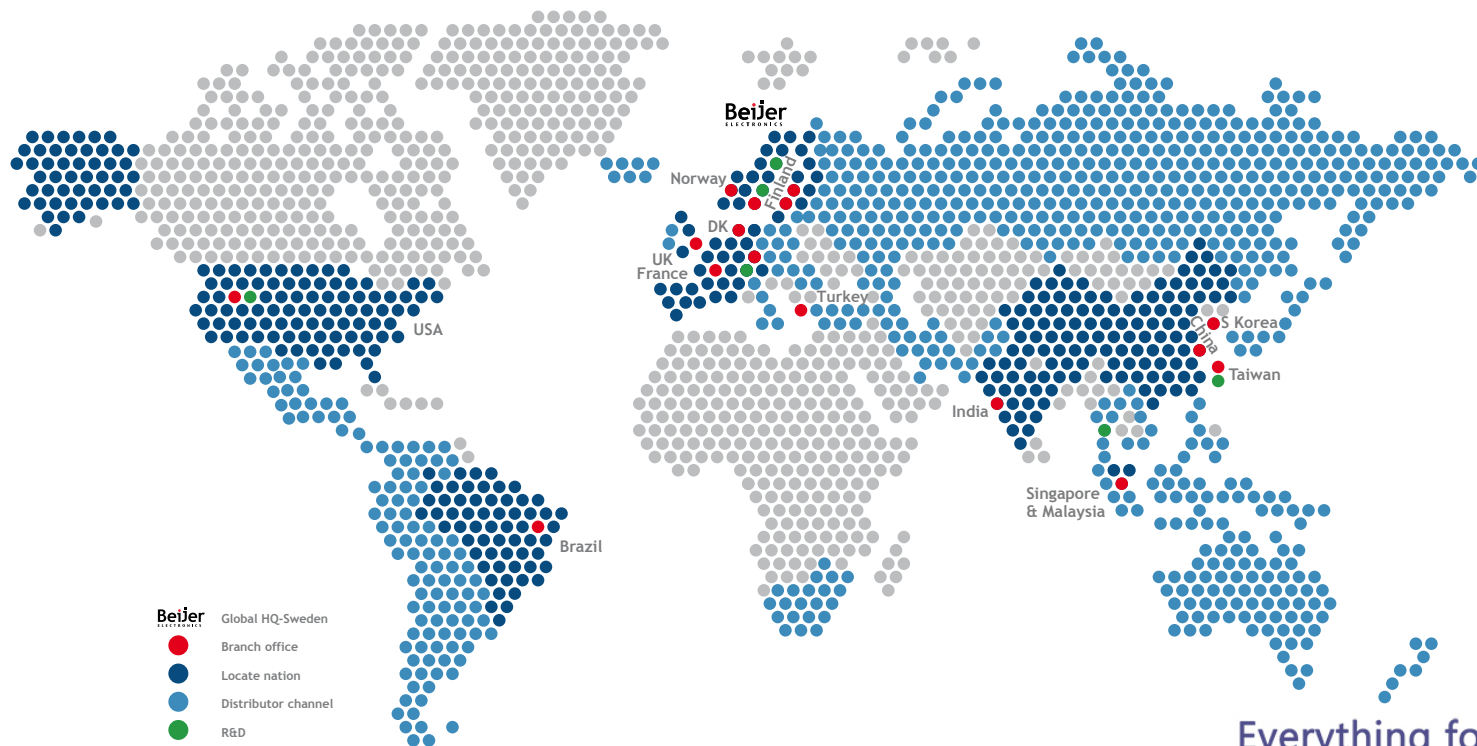


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Beijer
ELECTRONICS

About Beijer Electronics Corp. (Taiwan)

Beijer Electronics Corporation, is the Beijer Group's branch company in Taiwan. In 2005, Hitech Electronics was acquired by the Beijer Electronics Group, and in 2010, was officially renamed Beijer Electronics. This company was established in Taiwan in 1981 and in its early stage was a manufacturer of electronic pens (including LCD display panels). In 1984 the company began developing and manufacturing LCD modules, the first manufacturing company in Taiwan to successfully do so. In 1990, based on mature integrated embedded system technology with LCD modules, we became Taiwan's pioneering leader in the development and manufacture of HMI products. Fast expanded by own brand, Hitech-PWS Series, is sold all over the world, including Asia, north and middle & south America, and Europe. After the acquisition, Beijer Corp has been contributed by the Beijer Group's sales network, integration of resources, and technology support, has successfully surged from being the HMI market leader in Asia to being a global HMI product leader. For more information on Beijer Electronics Corporation (Taiwan), please visit <http://www.beijerelectronics.com.tw>.



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HMI Application Story Overview



Feeder Machine industry:

There are many different types of traditional mechanical equipment. Feeders, as they are commonly referred to, are divided by long rod, short rod, fuel fed and mechanical types. Traditional push button and switch controls are already incapable of meeting machinery control needs of customers. Increasing convenience in control and operation of mechanical equipment has guided the application of HMI products to conveyance equipment.

HMI product operation is convenient and easy to program. HMI products provide multiple language selections and an alarm and reporting function that makes malfunction issues easier to resolve.

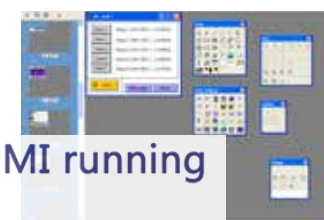
Through simple and easy software programs and proficient operation, the added-value of this mechanical equipment can be enhanced. In a future with high efficiency and precision requirements, HMI products are without a doubt the optimum communications tool between humans and machines.



Printing Industry:

Control box areas on printing machines are large and heavy. HMI product applications not only can economize the time it takes to design a control box, but can also reduce costs. For this reason, customers have all offered up outstanding evaluations after using HMI product applications.

Control box header installations, historical trends chart, historical data tables, historical incident tables, historical alarm tables, current alarm tables, alarm frequency tables, alarm indicator lights, directions, curves, and more can all be programmed through HMI product applications. This eliminates the need to spend time designing a control box and saves space.



Building Industry:

Standard building climate control equipment uses temperature control buttons, power switches, and LCD displays. Through implementation of HMI product applications in the building automation industry, HMI products not only ensure normal control conditions, but also can be easily programmed to display all necessary information, such as current temperature, humidity, expected start up time, alarm, trend charting, animations, and multi-language selections.

HMI products provide customers with numerous operating conveniences while enhancing the added-value of climate control equipment.

PWS-series HMI

Mono

Colors

3"	PWS6300S <ul style="list-style-type: none"> • 16 shades of gray • STN • COM Port x1 • 160 x 80 		
3.3"	PWS6400F <ul style="list-style-type: none"> • 16 shades of blue • STN • COM Port x1 • 240 x 240 		
4.7"	PWS6500S <ul style="list-style-type: none"> • 16 shades of blue • STN • COM Port x2 • 240 x 128 		
5.7"	PWS5610S <ul style="list-style-type: none"> • 16 shades of blue • STN • COM Port x1 • 320 x 240 	PWS6600S <ul style="list-style-type: none"> • 16 shades of blue • STN • COM Part x2 • 320 x 240 	PWS6620S <ul style="list-style-type: none"> • 16 shades of blue • STN • COM Port x2 • CF Card • USB Host x1 • USB Device x1 • 320 x 240

5.7"	PWS5610T <ul style="list-style-type: none"> • 256 Colors • TFT • COM Port x1 • 320 x 240 	PWS6600T <ul style="list-style-type: none"> • 256 Colors • TFT • COM Port x2 • 320 x 240 	PWS6620T <ul style="list-style-type: none"> • 64K Colors • TFT • COM Port x2 • CF Card • USB Host x1 • USB Device x1 • 320 x 240
7"	PWS6710T <ul style="list-style-type: none"> • 64K Colors • TFT • COM Port x3 • CF Card • USB Host x2 • USB Device x1 • 800 x 480 		
7.5"	PWS6800C <ul style="list-style-type: none"> • 64K Colors • Color STN • COM Port x3 • CF Card • USB Host x2 • USB Device x1 • 640 x 480 		
10.4"	PWS6A00T <ul style="list-style-type: none"> • 64K Colors • TFT • COM Port x3 • CF Card • USB Host x2 • USB Device x1 • 640 x 480 	PWS5A00T <ul style="list-style-type: none"> • 64K Colors • TFT • COM Port x3 • CF Card • USB Host x2 • USB Device x1 • 800 x 480 	



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The rational choice

Operator terminals matching your specific needs

Print functions:

Supports multiple printers, capable of printing current screens, alarm recording and logging buffer data.

External memory:

Supports CF card and USB memory devices to save HMI files, buffer records, related files and data.

CE & UL Certified:

Passed CE and UL certifications.

Suitable for different kinds of operating environments:

With anti-shock, anti-vibration, and temperature testing, these products are suitable for use in a variety of harsh operating environments.

Multi-port communication:

Capable of simultaneously communicating with up to 3 different control devices.

Touch screen:

Sturdy, durable, and resistive touch screen provides direct control.

IP65 Protection:

The dustproof and waterproof front panel has IP65 protection rating.

USB Transfers:

HMI files can be downloaded and uploaded via USB ports.



Suitable for different kinds of operating environments:

- Ambient temperature: 0 ~ 50°C
- Storage temperature: -10 ~ 60°C
- Ambient humidity: 10 - 90% RH(0~40°C), 10 - 60% RH(41~50°C), (non-condensing)
- Vibration endurance: 0.5 mm displacement, 10-55 Hz, 2 hours per X, Y, Z axis directions
- Shock endurance 10 G, 11 ms three times in each direction of X, Y, Z axes

Industry

- Textile machinery
- Marine & offshore
- Pharma
- Food
- Packaging machinery
- OEM
- Oil and gas
- Printing machinery

- Machine tools
- Building Automation
- Water and irrigation

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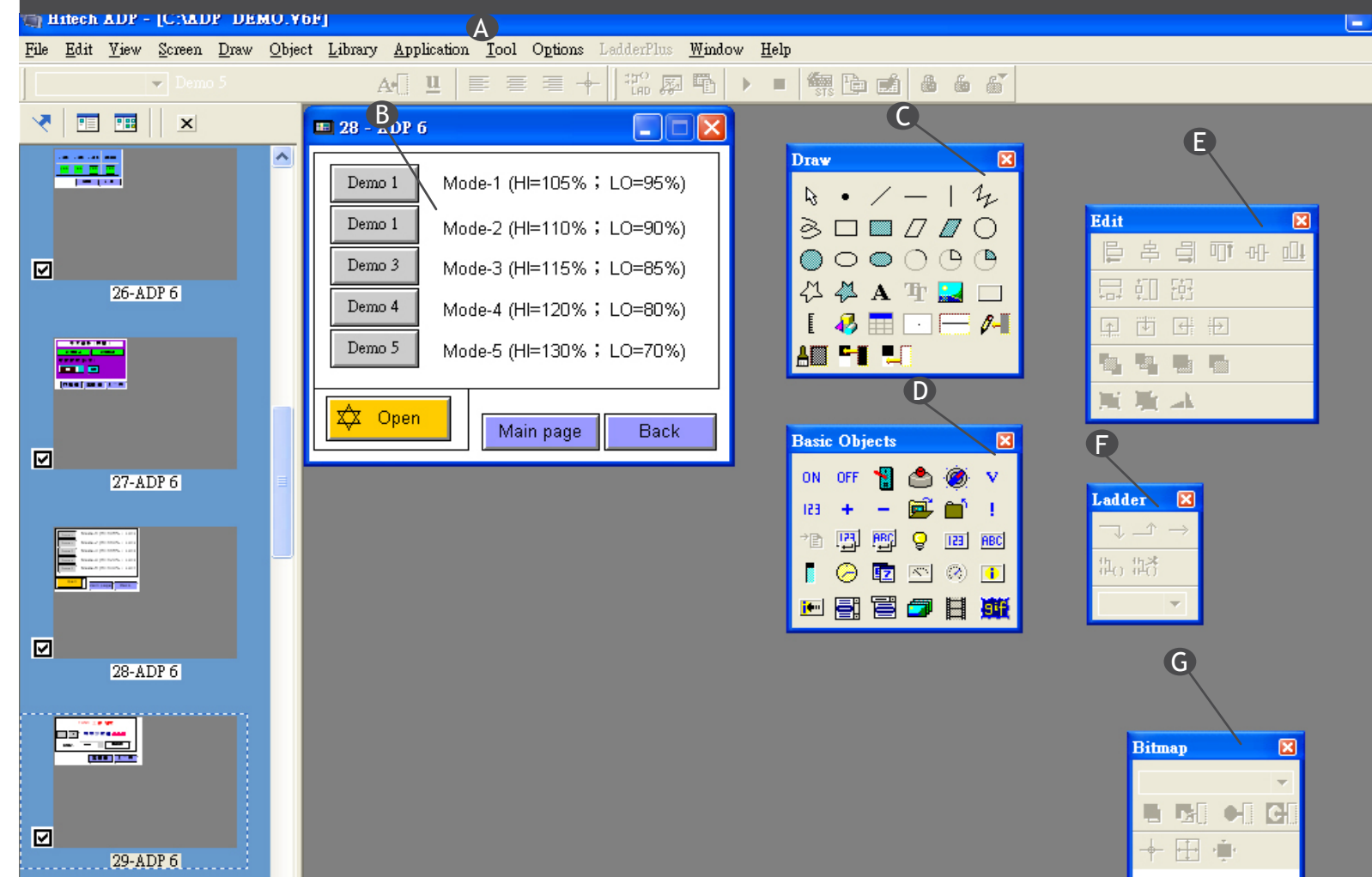
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Configuration software for the PWS-terminal

The ADP software is a versatile and intuitive HMI configuration software. It has been created with users in mind and is ideal for machine builders and system integrators. With flexible tools that allow projects to be created in minutes, ADP is the perfect software to create simple or complex projects. The configuration software is available free of charge on www.beijerelectronics.com.tw.



- A** Toolbar: Users can directly select the necessary functions through simple and easy to understand icons.
- B** Screens: In the editing screen, users can automatically adjust screen size to conform to equipment dimensions.
- C** Draw Windows: Users can quickly edit a screen through easy to operate graphic icons.
- D** Basic Objects Windows: Diversified objects satisfy user application requirements.
- E** Edit windows: Convenient user layout to adjust object and image size.
- F** Ladder windows: Users can easily edit ladder programs.
- G** Bitmap windows: Users can easily adjust dot matrix image color, size, and position.

Screen management

The "Screen Manager" function makes project management easy and enables the configurator to always oversee the entire project. It is possible to select between thumbnail and detailed zoomed views, allowing for dynamic screens to be created and viewed.

- Ideal for project cutting and pasting, browsing, editing and co-ordinating the operator terminal screens
- Ensures fast and easy project creation



• Screen management

Cross references

"Cross Reference" is a feature that enables the configurator to easily handle project tags, objects and signals. These can quickly be located and listed to get an overview of where and how they are used. If data has to be changed, it can be made in the tag list and the data will then automatically be changed everywhere else in the project.

- The list has up to 3 windows, giving a complete project overview
- Sort the Cross Reference list by screen number, screen name, tag name or controller address
- Locate objects and change parameters directly from the list



• Cross references

All Windows™ fonts supported

Since the ADP software is based around the Windows™ operating system, a font library with up to 16 different fonts can be defined, exported and imported.

Off-line and On-line simulation

In order to save valuable time and money at on-site commissioning, The ADP software provides powerful "Off-line and On-line Simulation". This allows for the HMI project to be thoroughly tested either just on a PC, or by combining the HMI with a PC to comprehensively test HMI and controller reactions, communications etc.

- Off-line simulation allows the developer to quickly test the entire project and verify the overall functionality of screens and alarms
- On-line simulation proves the communication and the functionality of the host controller, such as a PLC or inverter



• All Windows™ fonts supported

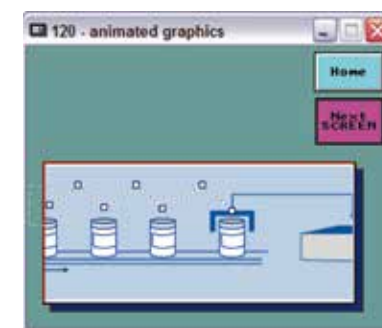


• Off-line and On-line simulation

Animated graphics

The graphic handling in the PWS-series is developed with both the configurator and the user in mind. The animated graphics allow a variety of graphic possibilities with only the configurator's imagination being the limit.

- Import graphic formats such as Bitmaps, JPEG, GIF and Auto-CAD™ files (*.bmp, *.jpg, *.gif, *.dwg, *.dxf)
- Supports animated gif images for complex and flexible screen creations
- Graphics can be moved in predefined paths or freely controlled by the host controller to maximize screen space
- Scrolling text can be used allowing long text strings to be displayed

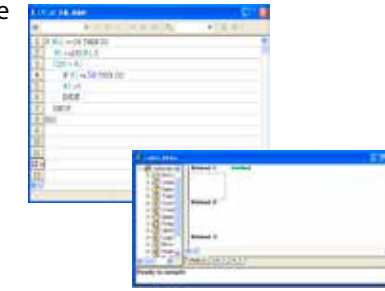


• Animated graphics

Ladder or Macro functionality

The ADP software saves valuable time by providing ready-made modules for e.g. arithmetic calculations, logical operators and bit settings. These can easily be linked to each other or to other data within the project using ladder or macro functionality.

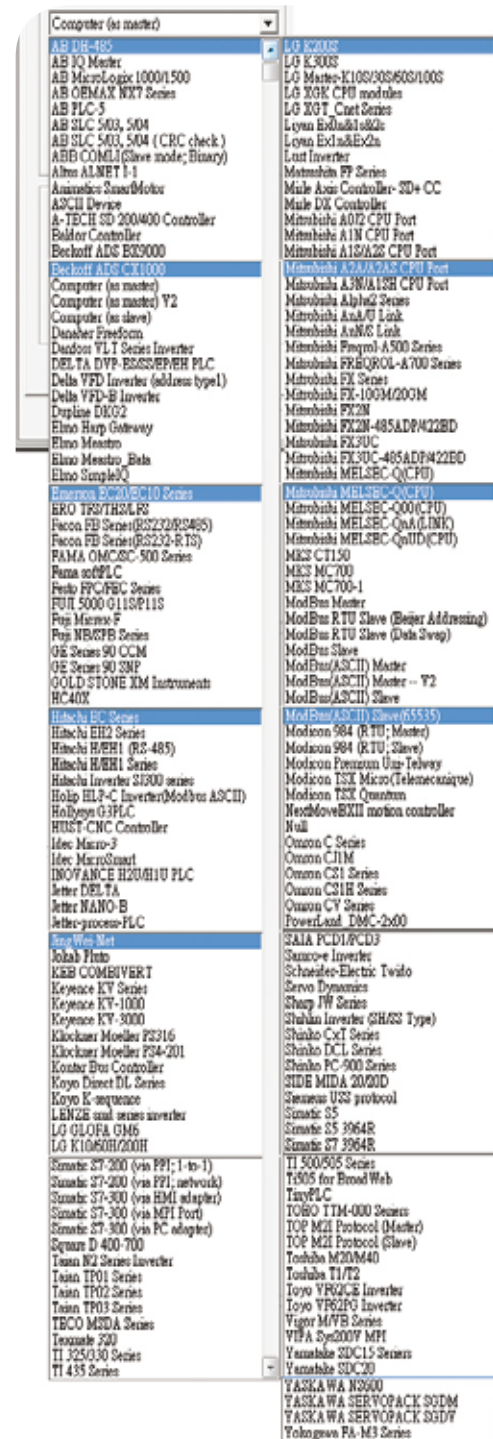
- Screen open macro
- Screen close macro
- Cyclic macro
- Initial application macro
- Clock macro
- Macros triggered by digital signals
- Sub-macros that can be triggered from other macros



• Ladder or macro functionality

Communication drivers

To accompany this inspiring range of HMIs is a range of free of charge communication drivers. This increasing list of drivers total over 100 and can be used for connecting the HMIs to various automation equipment such as PLCs, inverters, and servo controllers. Main world-wide brands such as Siemens, Omron and Allen Bradley are already included and new drivers are continuously being developed and updated.



Multi-language support

Making it easy for manufacturers who export all over the world, multi-language support allows the configurator to develop projects that can be used basically anywhere. With this setup within the HMI, to change languages is just a switch away. The language can also be changed during normal operation so that each operator can decide what language to use.

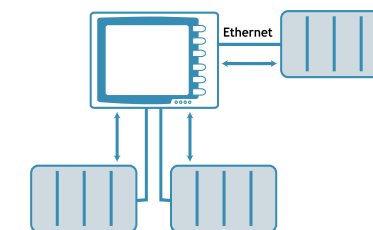
- Develop the application in up to 5 different languages
- Switch languages freely during normal operation



Multi-channel communication

Multi-channel communication is a unique feature that allows a different controller to be connected on each serial or Ethernet port. This flexible communication solution not only saves on buying multiple HMIs, but also removes the need for expensive protocol converters.

- Connect a controller to each available port either via serial or Ethernet connection
- Use values between the drivers via macros
- Use values from several controllers in calculations



• Multi-channel communication

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File protection

Protecting the application from unauthorized upload and download is essential in today's manufacturing world. The "File Protection" feature ensures that only authorized users can access sensitive information.

- Impossible to upload the protected application from the terminal without the correct password

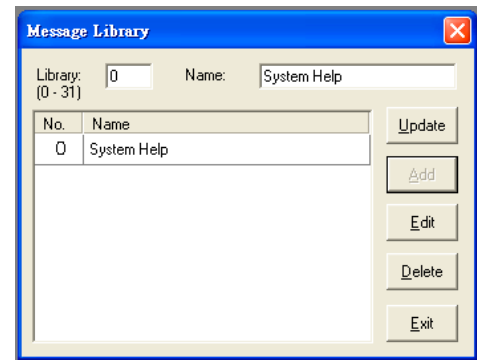


• File protection

Message Library

The message library assists designers in displaying message information by displaying pre-defined messages based on different circumstances.

- Designers can create 32 message libraries; each libraries can set up to 512 messages
- Each message can be defined by any control machine's signal address and internal memory

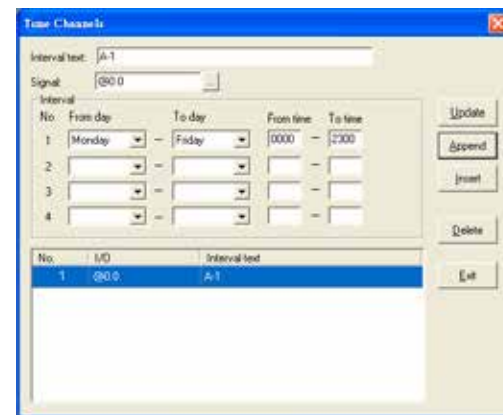


• Message Library

Time Channel

Time channel functions can help designers in pre-setting weekly times when the default BIT address is set to ON, with other times automatically designated as OFF.

- Designers can create up to 32 time channels; each channel is capable of 4 default BIT address ON time periods
- Each default BIT address can be defined by any controller's address and internal memory



• Time Channel

Alarm Group

Alarm functions can be used by designers to easily manage alarms and direct them toward different controllers to provide different alarm messages. Alarms can also be saved in the internal memory with a USB/CF card and can also be printed out directly on the printer when an incident occurs.

- Designers can create 3 different alarm groups, with each one providing defined alarms for different control machines
- With alarm messages in multiple languages, designers can export/import messages in EXCEL files to define
- Alarm occurrences for printing or storage via USB memory stick or CF cards and provide users with remote viewing from a PC



• Alarm Group

HMI I/O Controller for PWS6400F-P

Save the cost of your PLC

The compact new HMI I/O Controller not only enables easy interfacing with Beijer Electronics' HMI but also allows the user to implement simple monitoring and automation tasks without the need of a PLC. Easy to install and cost effective, the HMI I/O Controller was developed for the popular PWS6400F-P facilitating the aim of the PWS-series to offer valuable HMI functionality at the precise level required by the customer.

Built-in processor for optimal speed

Up to 16 modules per PWS6400F-P can be stacked up and the module's built-in processor means that the PWS6400F-P operates at optimal speed with no adverse effects.

Easy configuration with ADP

The utilization of Macro and Ladder commands offers easy configuration of your HMI I/O Controller with ADP. Monitoring and automation tasks can easily be developed with ADP. This intuitive HMI configuration software features flexible tools that allow projects to be created in just a few minutes, offering instant off-line and on-line simulation. ADP saves valuable time, providing ready-made modules that can be utilized for arithmetic calculations, logical operators and bit settings etc.

Technical data

I/O Module	EM-IOB-C4-00-RC	EM-IOB-88-00-RC
Digital inputs	12	8
Type	DC	
Input Voltage	5mA@24V	
Maximum Voltage	24V	
Isolation	Photo-coupler	
Input per common	12	8
Digital outputs	4	8
Type	DC	
Maximum Voltage	24V	
Maximum Ampere	0.5A	
Response time	ON: 10 ms, OFF: 5 ms	
Weight	0.1 Kg	
Operating temperature	-10 to +60°C	
Storage temperature	-20 to +70°C	
Humidity	5-85% (non-condensed)	
Dimensions (WxHxD)	80.6 x 52.5 x 42.9 mm	
Vibration	10 to 55 Hz (double amplitude of 1.5 mm)	



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PWS-series overview



	PWS6300S-S	PWS6400F-S	PWS6400F-P	PWS6500S-S	PWS6560S-S	PWS65610S-S	PWS65610T-S	PWS6600S-S	PWS6600S-P	PWS6600T-S	PWS6600T-P	PWS6620S-P	PWS6620S-N	PWS6620T-P	PWS6620T-N	PWS6710T-P	PWS6710T-N	PWS6800C-P	PWS6800C-N	PWS6A00T-P	PWS6A00T-N	PWS5A00T-P	
LCD Type	Mono STN LCD	Mono STN LCD	Mono STN LCD	Mono STN LCD	Color TFT LCD	Mono STN LCD	Color TFT LCD	Mono STN LCD	Color TFT LCD	Mono STN LCD	Color TFT LCD	Mono STN LCD	Color TFT LCD	Mono STN LCD	Color TFT LCD	Color TFT LCD	Color STN LCD	Color TFT LCD	Color TFT LCD	Color TFT LCD	Color TFT LCD	Color TFT LCD	
Screen size	3" (diagonal)	3.3" (diagonal)	4.7"(diagonal)	5.7"(diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	5.7" (diagonal)	7" (diagonal)	7.5" (diagonal)	7.5" (diagonal)	7.5" (diagonal)	10.4" (diagonal)	10.1" (diagonal)	10.1" (diagonal)	
Display resolution	160 x 80	240 x 240	240 x 128	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	320x240	320x240	320x240	320x240	800x480	640 x 480	640 x 480	640 x 480	640 x 480	640 x 480	800 x 480	
Brightness (cd/m2)	35	220	110	110	400	160	400	160	400	160	400	160	400	160	400	400	200	450	300	450	300	300	
Contrast adjustment	Via VR	Via touch panel	Via touch panel	Via touch panel	Via external keyboard (sold sperately)	Via touch panel	—	Via touch panel	—	Via touch panel	—	Via touch panel	—	Via touch panel	—	Via touch panel	—	Via touch panel	—	Via touch panel	—	—	—
Display colors	16 shades of gray	16 shades of blue	16 shades of blue	16 shades of blue	16 shades of blue	256 colors	256 colors	16 shades of blue	256 colors	16 shades of blue	256 colors	16 shades of blue	64K colors	64K colors	64K colors	64K colors	64K colors	64K colors	64K colors	64K colors	64K colors	64K colors	
Back light type	LED	LED	CCFL	LED	LED	LED	LED	LED	LED	LED	LED	CCFL	LED	LED	LED	LED	CCFL	LED	LED	LED	LED	LED	
CPU	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	32-bit RISC	
Back light life	50,000 hours	30,000 hours	30,000 hours	20,000 hours	50,000 hours	30,000 hours	50,000 hours	30,000 hours	50,000 hours	30,000 hours	50,000 hours	50,000 hours	50,000 hours	50,000 hours	20,000 hours	60,000 hours	50,000 hours	20,000 hours	60,000 hours	50,000 hours	20,000 hours	20,000 hours	
Operation Status LED	PWR & COM2 LEDs	PWR & COM1, LEDs	PWR & COM1, COM2 LEDs	PWR & COM1, COM2 LEDs	PWR & COM1, COM2 LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	PWR, COM1, COM2, Ethernet LEDs	
Touch screen	—	Analog	Analog	Via external keyboard (sold sperately)	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	Analog	
Touch screen (number of times)	—	> 1,000,000	> 1,000,000	—	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	> 1,000,000	
Keypad	16 mechanical switches	—	—	128 mechanical switches	—	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 5 user-defined function keys (F1–F5)	1 Menu key and 6 user-defined function keys (F1–F6)	1 Menu key and 6 user-defined function keys (F1–F6)	1 Menu key and 6 user-defined function keys (F1–F6)	1 Menu key and 6 user-defined function keys (F1–F6)	1 Menu key and 7 user-defined function keys (F1–F7)	1 Menu key and 7 user-defined function keys (F1–F7)	1 Menu key and 7 user-defined function keys (F1–F7)	
Application Flash ROM	4MB	4MB	4MB	4MB	2MB	4MB	4MB	4MB	4MB	4MB	4MB	4MB	4MB	4MB	4MB	8MB	8MB	8MB	8MB	8MB	8MB	8MB	
RAM	128KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB	16MB	
Data/Recipe	—	—	8KB	—	256KB	—	512KB	—	512KB	—	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	512KB	
RTC (w/rechargeable lithium battery)	changeable lithium battery	Yes	Yes	Yes	changeable lithium battery	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Data storage (CF card)	—	—	—	—	—	—	—	—	—	—	—	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
COM1	—	9-pin female (RS232/RS422/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	9-pin female (RS232/RS485)	
COM2	9-pin female (RS232/RS422/RS485)	—	9-pin female (RS422/RS485)	—	25-pin female (RS232/RS422/RS485)	—	25-pin female (RS232/RS422/RS485)	—	25-pin female (RS232/RS422/RS485)	—	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	25-pin female (RS232/RS422/RS485)	
COM3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	9-pin female (RS422/RS485)	
USB Host	—	—	—	—	—	—	—	—	—	—	—	1	1	1	1	2	2	2	2	2	2	2	
USB Device	—	—	—	—	—	—	—	—	—	—	—	1	1	1	1	1	1	1	1	1	1	1	
Multi-functional port	—	—	—	—	—	—	—	26-pin connector for printer	—	26-pin connector for printer	—	—	—	—	—	—	—	—	—	—	—	—	
Ethernet	—	—	—	—	—	—	—	—	—	—	—	Yes	—	Yes	—	Yes	—	Yes	—	Yes	—	Yes	
External dimensions (mm)	173.0 (W) x 105.5 (H) x 51.8 (D)	96 (W) x 96 (H) x 40.6 (D)	170.3 (W) x 102.6 (H) x 45.3 (D)	195.0 (W) x 145.0 (H) x 40.2 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	195.0 (W) x 145.0 (H) x 59.1 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	231.0 (W) x 176.0 (H) x 46.8 (D)	
Cut-out dimensions (mm)	160.8 x 93.3	89.3 x 89.3	160.7 x 93.0	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	185.8 x 135.8	220.8 x 165.8	220.8 x 165.8	220.8 x 165.8	220.8 x 165.8	220.8 x 165.8	220.8 x 165.8	220.8 x 165.8	
Supply voltage	24V DC ±15 %, < 8W	24V DC ±15 %, < 4W	24V DC ±15 %, < 12W	24V DC ±15 %, < 8W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 20W	24V DC ±15 %, < 24W	24V DC ±15 %, < 24W	24V DC ±15 %, < 24W	24V DC ±15 %, < 24W	24V DC ±15 %, < 24W	24V DC ±15 %, < 24W	24V DC ±15 %, < 30W	
Front protection	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	IP65	
Certification	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	CE,UL,FCC	
Weight (kg)	0.37	0.21	0.47	0.55	0.5	0.81	0.75	0.81	0.75	0.81	0.75	0.81	0.75	0.81	0.75	1.05	1.20	1.05	1.20	1.05	1.20	1.51	

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The PWS-series consists of various models and versions

PWS-6se0d-v

S: Size(Inch) e: Enhancement model d: (C: COLOR, T: TFT, S: STN, F: FSTN) V: Version (S: standard, P: plus, N: network)

Plus version

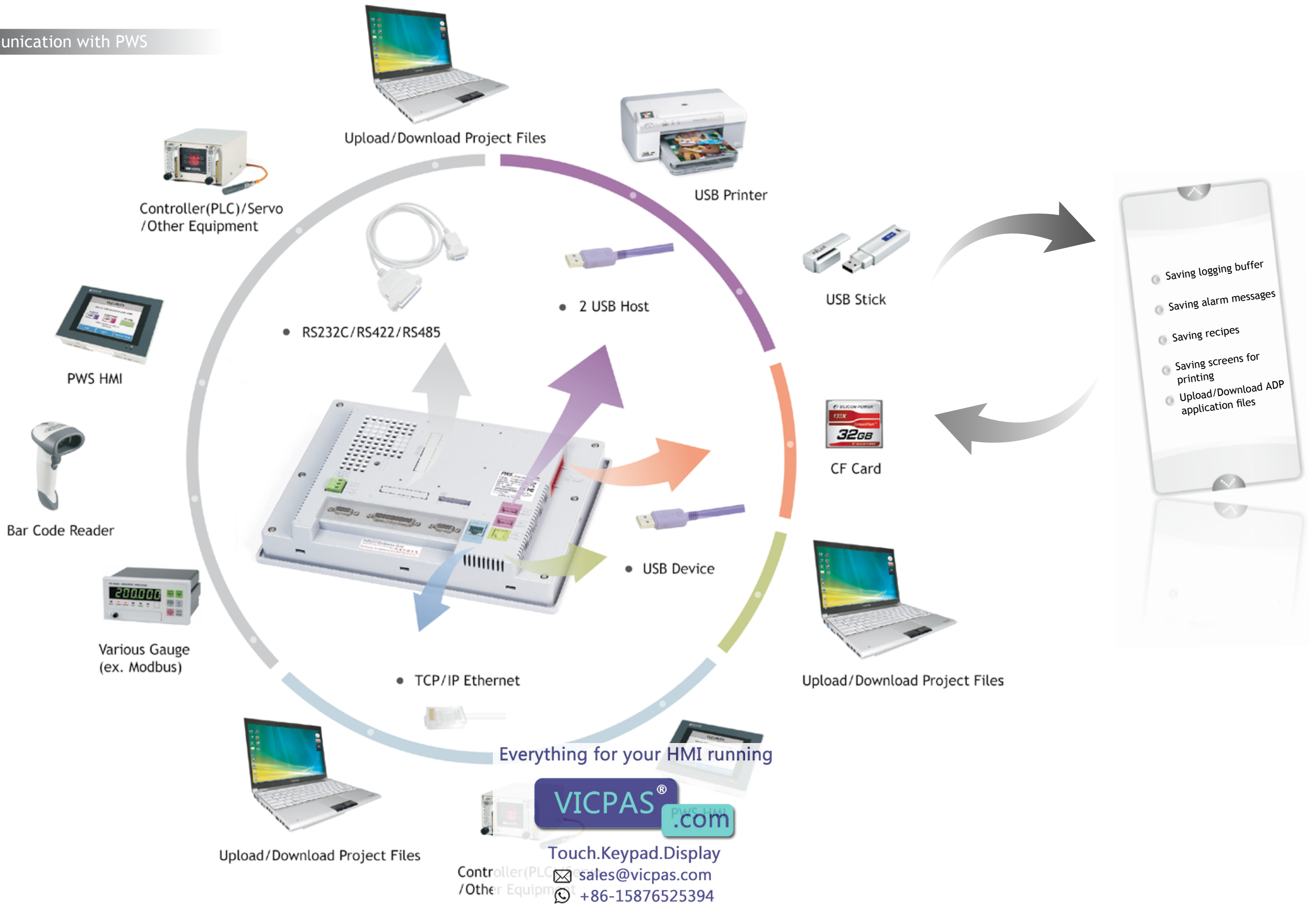
Has the same functionality as the Standard version as well as data/recipe handling and a communication port for a printer or external keyboard.

Network version

The network version is a Plus version with an integral Ethernet networking port.

PWS Connection

Communication with PWS



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