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



Step 2: Choose Controller

Step 3: Select Location

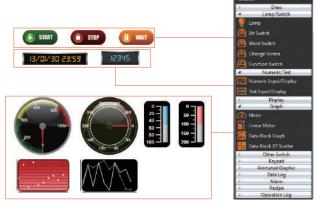
EasyEasy Planning and Rich Resources



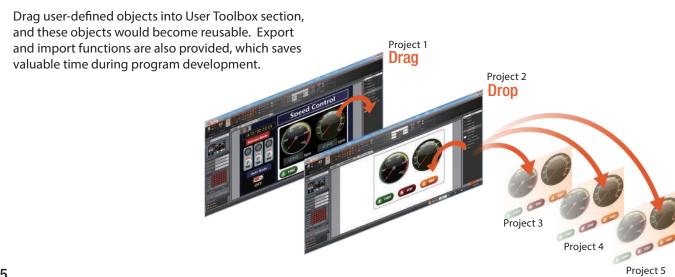
Pipe Line A pipeline is composed of L/T/Cross joints and pipes. You can create a pipeline easily and efficiently. At runtime, You can also control a pipeline to change color, blink, and flow effect dynamically.

Toolbox

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



User Toolbox



Automatic alignment

Support snap alignment and grid alignment functions, and assist users to design faster and more conveniently.



User-defined Keypad

Can customize the style of the keypad, supports unicode string input.

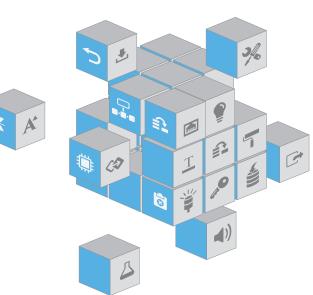




Resources

Support a plentiful of resource libraries that allow users to customize the content and apply it to any project applications.

- Image Library: Thousands of industrial images to choose from, or import your own images.
- Audio Library: Use the Audio Library to play the sound you like when an alarm happens or a button is clicked.
- Font Library: The capacity of font files is minimized, thus minimizing memory usage.
- Text Library: Multi-language support satisfies your requirement of localization. You can even change the language setting dynamically at runtime.
- Tag Library: Make abstract address's text easy to be understood for system planning.



b contract the second contract to the second

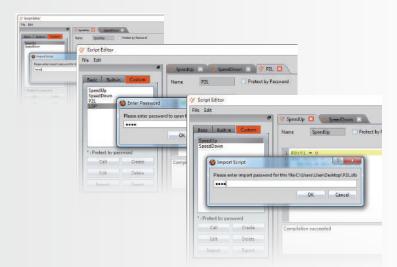
Security and Safety Control



Intellectual Property Rights Protection

- The project can be protected by the password and it requires password verification for users to edit the file.
- Password protection supports download/ upload of HMI project, system setting and update of MERITEK PLC program via USB flash disk.
- Supports project to execute protection function, the customer ID on the project and HMI device must set the same to run.
- Provides HMI internal register for users to change passwords directly and customize startup screen easily.
- 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













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.



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.



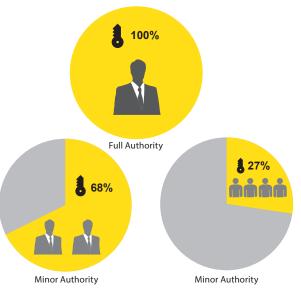
Security

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.

Pay by Installments

- Static mode provides up to 48 periods, and each deadline can be different intervals between each
- 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.



Alarm, Trend, Data Log, E-mail, Camera

Scrolling Text

Step1:

system status.

Use the Alarm function to set the threshold value for monitoring

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.

Alarm Scrolling Text

Alarm Display

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.



Popup window



Email

- Send important messages to recipients through triggered alarm.
- Can configure the contact lists and groups, easy to assign recipients.
- Provide SSL/TTL encryption mechanism to ensure file security.

Camera

- Support USB camera input and display images directly on the HMI screen.
- Can capture the image and save to the USB storage or send the site image via email.

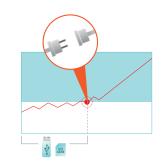


Users can receive emails that contain alarm information and captured images from the site.



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 Transfer



MERITEK

MERITEK IoTand Cloud Platform

Support MERITEK IoT solution.

 Support MQTT protocol(Publisher/Subcriber/Broker) easily get in touch with major cloud platforms.

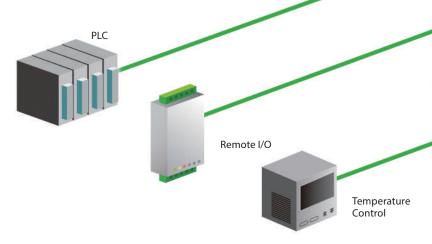


NTP

Network Time Synchronization function synchronizes the time of all HMIs, no need to worry about time delay.

Multi-Link

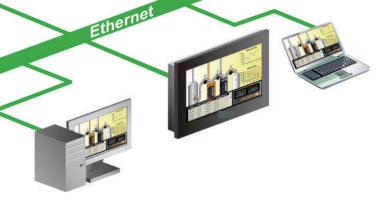
- PLC connected to Master HMI can be
- Easy setup, speed up development.



- accessed by Slave HMI, Cost Reduced!



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.



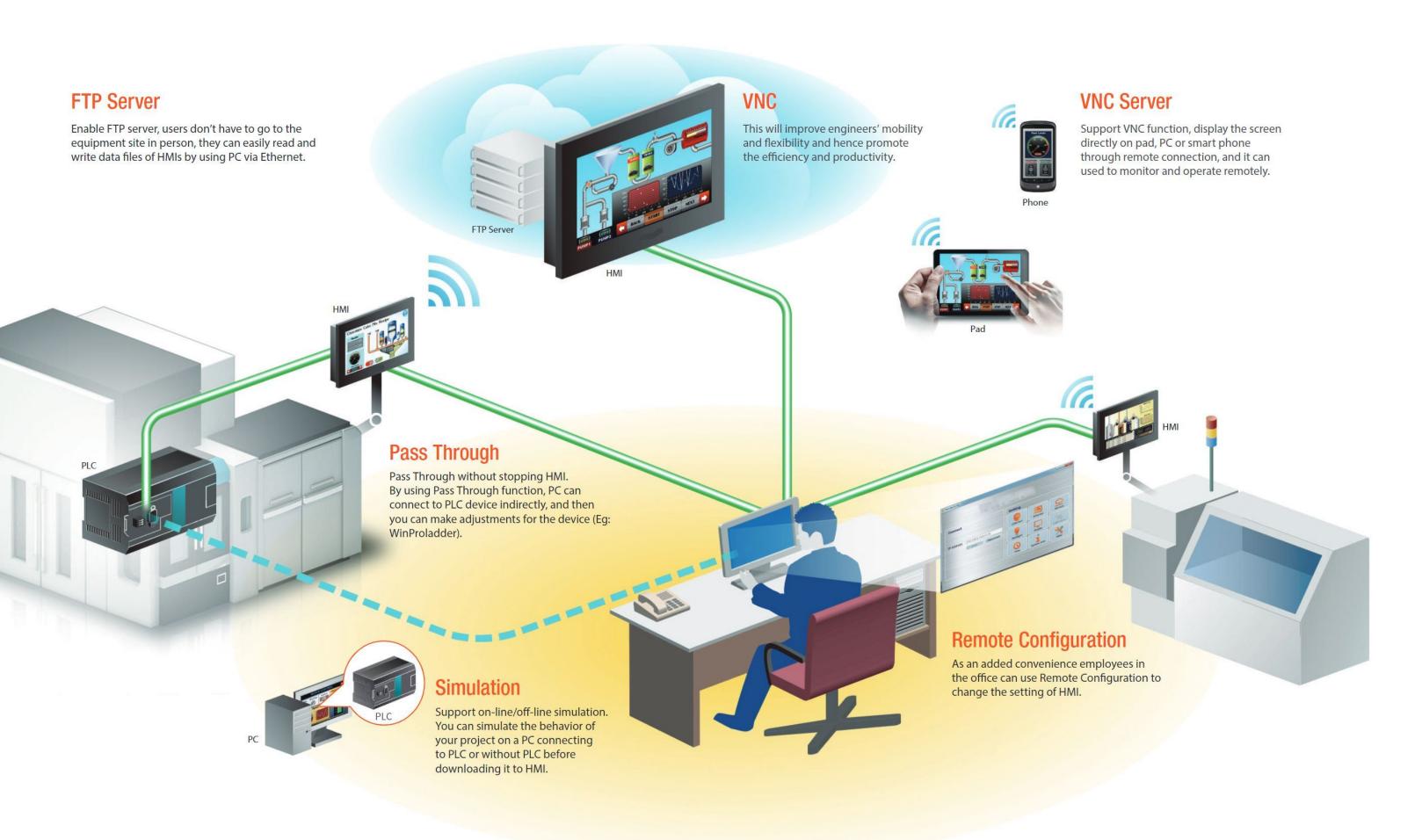
User-defined protocol

- With simple operation setting to customize the third-party communication transmission or return data instruction format, users can access the device data easily.
- Provide automatic input of various communication checksums, which is convenient and efficient.
- Script also supports this function to make system planning more flexible.

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...)
- Customizable Modbus address correspondence table

Remote Monitor and Control



Integrated HMI + PLC

MERITEK 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.

On-line Monitoring PLC Ladder Program

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

Ladder Viewer





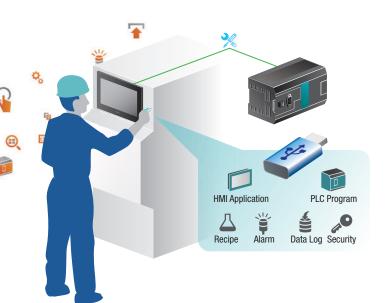
Import Tags from WinProladder Project

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

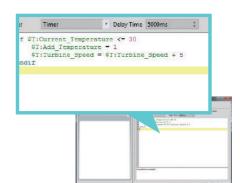
- Site personnel need not use PC to maintain the equipment. He can just use usb flash drive to upgrade PLC ladder program and HMI application.
- In addition to this, user also can access datalog and alarm data, modify recipe parameters, and change security password by using usb flash drive.



Powerful Programming Features

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



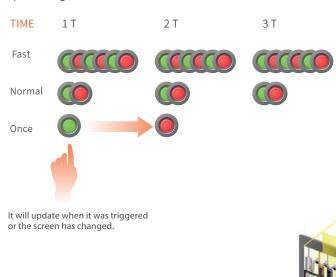
Recipe

- 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	N 13	N 8

Fast Update

Provides users in different situations to select the update speed to get the latest data.





MHB1 main units + MB1 extension modules

SD card Printer

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.





Spec.	Model	P5043SB	P5043NB	P5070SB	P5070NB	P5070ZB		
	Panel Type	TFT LCD, 1	6.7M Colors		TFT LCD, 16.7M Colors			
	Panel Size	4.3"	(16:9)	7.0" (16:9)				
	Resolution	480	X 272		800 X 480			
Dianlay	Contrast Ratio	5	00		500			
Display	Backlight		500 nits		LED, 400 nits			
	Backlight Life Time		00 Hrs.		30,000 Hrs.			
	LCD Viewing Angle			·				
	(T/B/L/R)	50//0	0/70/70	A in Braidin Film	70/50/70/70			
Touch	Туре			4-wire Resistive Film	,			
	Accuracy			X axis+/-2%; Y axis +/-2%				
	CPU			32 bit RISC Cortex 600MF	łz			
System	Flash			256MB				
	RAM			128MB				
	RTC			Built-in				
	Serial 1	COM1: COM2: R	D-Sub 9-Pin RS-232 S-422/485 RS-485		Connector: D-Sub 9-Pin COM1: RS-232			
I/O Port	Serial 2			Connector: Pluggable Terminal Block COM3:RS-422/485 COM4:RS-485				
	Ethernet		10M/100M		10M/100M	10M/100M		
	USB		pe-A (Host)x1 nini-B (Device)x1	USB2.0 Type-A (Host)x1 USB2.0 Type C (Device)x1				
	Micro-SD Slot					Yes		
	Termination Switch			Yes (RS-422/485)				
	PLC Extension	MHB1 main unit	s (10/14MB Series)	MHB1	MHB1 main units + MB1 extension modules			
Module	4G Extension			Yes				
Expansion	WIFI Extension			Yes				
	RFID Extension	Yes						
_	Power Input	14VDC-32VDC (Isolated Power)						
Power	Isolation Resistance			50MΩ at 500VDC				
	Power Consumption	9.58W	10.08W	11.5W	12W	12.5W		
	Protection Structure			Front Panel: IP65				
	PCB Coating	Yes						
	Operating Temp.			0 ~ 50°C				
	Storage Temp.			-20 ~ 60°C				
Environment	Relative Humidity		10%	~ 90%@40°C (non-conde	ensing)			
	Withstand Voltage		AC500V/ 20m.	A/ 1Min. (between charge	& FG terminals)			
	Vibration Endurance		9 to 150 Hz	to 9Hz Half-amplitude: 3.5 c Constant Acceleration: 19 f X, Y, Z: 10times (IEC6113	9.6m/s2 (2G)			
Enclosure				Plastic				
	Cut-out	118.5 x	92.5 (mm)		175.0 x 130.0 (mm)			
Dimension/	WxHxD	128.0 x 102	.0 x 36.4 (mm)		184.0x 139.0 x 35.0 (mm)			
Weight	Weight	215 (g)	235 (g)	465 (g)	485 (g)	505 (g)		
	Certification	- (5)	- (3)	CE, UL*	. 07	- 107		
				GE, UL*				







Spec.	Model	P5101SB	P5101NB	P5101ZB	P5120ZB	P5150ZB				
	Panel Type		TFT LCD, 16.7M Colors	TFT LCD, 16.2M Colors	TFT LCD, 16.2M Colors					
	Panel Size		10.1" (16:9)		12.0"(4:3)	15.0"(4:3)				
	Resolution		1024 X 600	1024 X 768	1024 X 768					
Display	Contrast Ratio		450	900	700					
. ,	Backlight		LED, 300 nits		LED, 500 nits	LED, 300 nits				
	Backlight Life Time		25,000 Hrs.	30,000 Hrs.	50,000 Hrs.					
	LCD Viewing Angle (T/B/L/R)		50/20/55/55		70/70/80/80	70/70/80/80				
Touch	Туре			4-wire Resistive Film						
Touch	Accuracy	X axis+/-2%; Y axis +/-2%								
	СРИ			32 bit RISC Cortex 1GHz						
Ct.	Flash			256MB						
System	RAM			256MB						
	RTC			Built-in						
	Serial 1			Connector: D-Sub 9-Pin COM1: RS-232						
I/O Port	Serial 2	Connector: Pluggable Terminal Block COM3: RS-422/485 COM4: RS-485								
	Ethernet		10M/100M	10M/100M	10M/100M	10M/100M				
	USB			USB2.0 Type-A (Host)x1 USB2.0 Type C (Device)x1						
	Micro-SD Slot			Yes	Yes	Yes				
	Termination Switch			Yes (RS-422/485)						
	PLC Extension		MHE	31 main units + MB1 extension	modules					
Module	4G Extension			Yes						
Expansion	WIFI Extension			Yes						
	RFID Extension	Yes								
	Power Input	14VDC-32VDC (Isolated Power)								
Power	Isolation Resistance	50MΩ at 500VDC								
	Power Consumption	11.02W	11.52W	12.02W	15W	20W				
	Protection Structure			Front Panel: IP65						
	PCB Coating	Yes								
	Operating Temp.	0 ~ 50°C								
	Storage Temp.			-20 ~ 60°C						
Environment	Relative Humidity		10	% ~ 90%@40°C (non-conder	nsing)					
	Withstand Voltage	AC500V/ 20mA/ 1Min. (between charger & FG terminals)								
	Vibration Endurance	5 to 9Hz Half-amplitude: 3.5mm 9 to 150 Hz Constant Acceleration: 19.6m/s2 (2G) 3 directions of X, Y, Z: 10times (IEC61131-2 compliant)								
	Enclosure		Р	lastic		Aluminum				
	Cut-out		257.0 x 171.0 (mm)		282.0 x 230.0 (mm)	348.0 x 274.0 (mm)				
Dimension/	WxHxD		266.0x 180.0 x 38.0 (mm	1)	291.0x 239.0 x 40.9(mm)	357.0x283.0x52.5 (mn				
Weight	Weight	860(g)	880 (g)	900 (g)	1450 (g)	3165 (g)				
	11019111	555(9)	1 550 (9)		1 100 (9)	J 0 100 (9)				

* Please inform when ordering







Spec.	Model	P5043SA	P5043NA	P5070SA	P5070NA	P5070ZA	P5101SA	P5101NA	P5101ZA	
	Panel Type	TFT LCD, 16.7M Colors TFT LCD, 16.7M Colors		TFT LCD, 16.7M Colors						
	Panel Size	4.3"	(16:9)	7.0" (16:9)		10.1" (16:9)				
	Resolution	480	X 272	800 X 480			1024x600			
Display	Contrast Ratio	500			500			450		
Біоріцу	Backlight	LED, 5	500nits		LED, 400nits			LED, 300 nits		
	Backlight Life Time	30,000 Hrs.			30,000 Hrs.			25,000 Hrs.		
	LCD Viewing Angle (T/B/L/R)	50/70/70/70 70/50/70/70					50/20/55/55			
Touch Type					4-wire Res	sistive Film				
Touch	Accuracy	X axis+/-2%; Y axis +/-2%								
	CPU				32 bit RISC C	ortex 600MHz				
System	Flash		256MB							
System	RAM				128	MB				
	RTC				Bui	t-in				
	Serial 1	COM1: COM2: RS	D-Sub 9-Pin RS-232 S-422/485 RS-485		Connector: D-Sub 9-P COM1: RS-232		Connector: D-Sub 9-Pin COM1: RS-232			
I/O Port	Serial 2			Connector: Pluggable Terminal Block COM3:RS-422/485 COM4:RS-485		Connector: Pluggable Terminal Block COM3:RS-422/485 COM4:RS-485				
	Ethernet		10M/100M		10M/100M	10M/100M		10M/100M	10M/100M	
	USB			USB2.0 Type-A (Host)x1 USB2.0 Type mini-B (Device)x1						
	Micro-SD Slot					Yes			Yes	
	Audio					Yes			Yes	
	Termination Switch	Yes(RS-422/485)								
Module	PLC Extension		nain units IB Series)		MHB1 main units + MB1 extension modules					
Expansion	4G Extension	Yes Yes								
	WIFI Extension RFID Extension					:S ::S				
	Power Input	14VDC-32VDC (Isolated Power)								
Power	Isolation Resistance				50MΩ at	, ,				
	Power Consumption	9.58W	10.08W	11.48W	11.98W	12.48W	11.02W	11.52W	12.02W	
	Protection Structure		I	l	Front Pa	nel: IP65	ı			
	PCB Coating				Ye	es				
	Operating Temp.	0 ~ 50°C								
	Storage Temp.	-20 ~ 60°C								
Environment	Relative Humidity				10% ~ 90%@40°					
	Withstand Voltage			AC500			rminals)			
	Vibration Endurance	AC500V/ 20mA/ 1Min. (between charger & FG terminals) 5 to 9Hz Half-amplitude: 3.5mm 9 to 150 Hz Constant Acceleration: 19.6m/s2 (2G) 3 directions of X, Y, Z: 10times (IEC61131-2 compliant)								
	Enclosure			Plastic						
	Cut-out	118.5 x 9	92.5 (mm)	191.5 x 137.5 (mm)			259.5 x 201.5 (mm)			
Dimension/	WxHxD		0 x 36.4 (mm)	20	01.0 x 147.0 x 38.3 (m	im)	271.5 x 213.5 x 44.9 (mm)			
Weight	Weight	215 (g)	235 (g)	610 (g)	630 (g)	650 (g)	1340 (g)	1360 (g)	1380 (g)	
	Certification	(9/		3.0 (9)	CE,		.0.0(9)	.000 (9)	. 555 (9)	
	ooi ailoadoli				UE,	UL.				





Spec.	Model	P5070SB(R)	P5070NB(R)	U7070NA			
	Panel Type	TFT LCD, 16.7M Colors		TFT LCD, 16.7M Colors			
	Panel Size	7.0" (16:9)		7.0" (16:9)			
	Resolution	800 X 480		1024 X 600			
Display	Contrast Ratio	50	0	700			
Display	Backlight	LED, 40	0 nits	LED, 500 nits			
	Backlight Life Time	30,000	Hrs.	30,000 Hrs.			
	LCD Viewing Angle (T/B/L/R)	70/50/7	70/70	70/50/70/70			
	Туре		4-wire R	esistive Film			
Touch	Accuracy	X axis+/-2%; Y axis +/-2%					
	CPU	32 bit RISC Co		32 bit RISC Cortex-A15 1GHz			
	Flash	2561		4GB			
System	RAM	128	ИB	1GB			
	RTC		B	uilt-in			
	Serial 1	Connector: D COM1: R		Connector: D-Sub 9-Pin COM1: RS-232 COM2: RS-422/485 COM3: RS-485			
I/O Port	Serial 2	Connector: Pluggable Terminal Block COM3:RS-422/485 COM4:RS-485					
	Ethernet		10M/100M	1ch 10M/100M 1ch 10M/100M/1000M			
	USB	USB2.0 Type-A (Host)x1 USB2.0 Type C (Device)x1		USB2.0 Type-A (Host)x1 USB2.0 Type C (Device)x1			
	Micro-SD Slot						
	Termination Switch	Yes (RS-4	22/485)				
	PLC Extension	MHB1 main units + N	IB1 extension modules	MHB1 main units + MB1 extension modules			
Module	4G Extension			Yes			
Expansion	WIFI Extension		Yes				
	RFID Extension		Yes				
_	Power Input	14VDC-32VDC (Isolated Power)					
Power	Isolation Resistance			at 500VDC			
	Power Consumption	12.5W		21.0W			
	Protection Structure	Front Panel: IP65					
	PCB Coating			Yes			
	Operating Temp.	0 ~ 5	0°C	-20 ~ 60°C			
	Storage Temp.		-20 ~ 60°C				
Environment	Relative Humidity	10% ~ 90%@40°C (non-condensing)					
	Withstand Voltage	AC500V/ 20mA/ 1Min. (between charger & FG terminals)					
	Vibration Endurance		9 to 150 Hz Constant A	-amplitude: 3.5mm Acceleration: 19.6m/s2 (2G) Dtimes (IEC61131-2 compliant)			
	Enclosure	Plas	tic	Aluminum			
Dimension/	Cut-out	174.5 x 10	9.2 (mm)	174.5 x 130.0 (mm)			
Weight	WxHxD	174.0 x 129.0	x 34.5 (mm)	184.0x 139.0 x 34.0 (mm)			
Only HMI	Weight	480	(g)	850 (g)			
	Certification	CE, l		CE			
	anoution	JL, t	-	JL.			

Specification



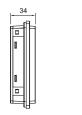




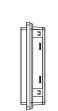
Spec.	Model	HEM-WLC-4G	HEM-WLC-WIFI	HEM-WLC-RFID				
	Network Frequency Band	(3G):2100MHz (4G):700/900/1800MHz (Band 28/8/3)	2.4GHz & 5GHz	13.56MHz				
Specification	Supported Protocols	GSM/GPRS/EDGE/UMTS/HSDPA/HSUPA (3G) LTE (4G)						
Comr	nunication Interface	USB 2.0 Type A (F Requires the use of a USB 2.0 Cable Type A Male to Typ		RS - 485				
Power	Power Input	Powered via USB, no additional pow	er supply required	+24VDC				
rower	Power Consumption	2.2W (5V, 440mA)	2.25W (5V, 450mA)	0.72W (24V, 30mA)				
	Protection Structure		Front: IP66, Rear: IP20					
	PCB Coating	Yes						
	Operating Temp.	0 ~ 50°C						
	Storage Temp.	-20 ~ 60°C						
Environment	Relative Humidity	10% ~ 90%@40°C (non-condensing)						
	Withstand Voltage	AC500V/ 20mA/ 1Min						
	Vibration Endurance	5 to 9Hz Half-amplitude: 3.5mm 9 to 150 Hz Constant Acceleration: 19.6m/s2 (2G) 3 directions of X, Y, Z: 10times (IEC61131-2 compliant)						
	Cut-out	132 x 54 (mm)	132 x 54 (mm)	87 x 46 (mm)				
Dimension/ Weight	WxHxD	141 x 63 x 34 (mm)	141 x 63 x 34 (mm)	96 x 55 x 34 (mm)				
giit	Weight	95 (g)	110 (g)	65 (g)				
	Certification	CE	CE	-				

Dimensions

HEM-WLC-RFID

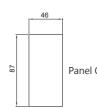


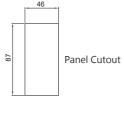




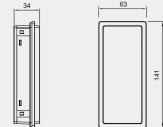








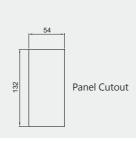
HEM-WLC-4G/WIFI





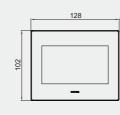


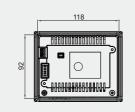




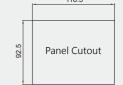
P5043 A/B





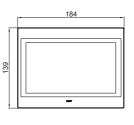




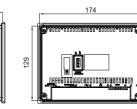


P5070 B / U7070A

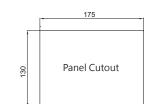






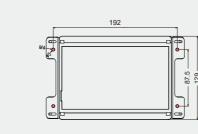


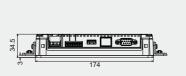


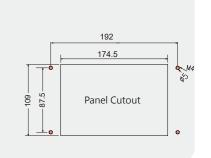


P5070 B(R)



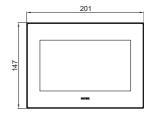


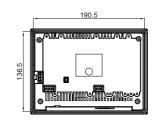


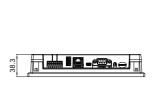


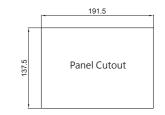
P5070 A



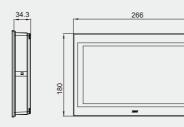


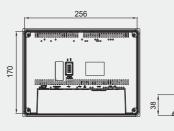


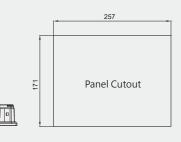




P50101 B

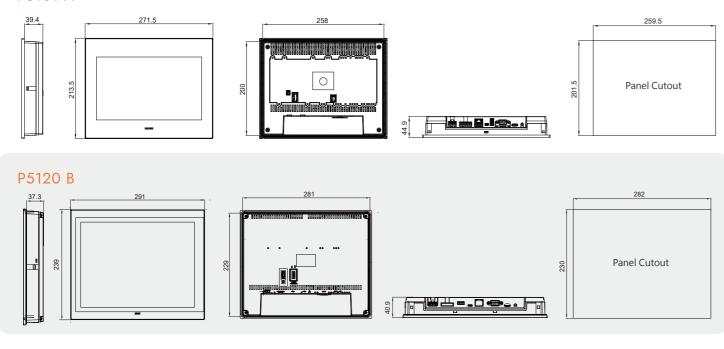




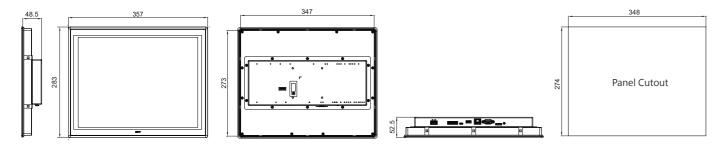


Dimensions

P5101 A



P5150 B



HMI Accessories

Item Name	Model	Description				
	P5NP043A/B	Nameplate for P5043SA/B,NA/B				
Nomenlata	P5NP070A/B	Nameplate for P5070SA/B,NA/B,ZA/B				
Nameplate	P5NP101A	Nameplate for P5101SA/NA/ZA				
	P5NP150B	Nameplate for P5150ZB				
USB 1.8m download cable	USBA-MINIB-180	1.8m USB mini B type to USB A type download cable				
Communication Cable	MBs-232p0-9FR-200	Mini-DIN 4M to DB9F 90 communication cable,(MBs main unit port 0 RS232 connect to DB9M), Length 200cm				
	P5CC070	7-pin screw terminal block				
	P5PC070	7-pin spring terminal block				
Connector	HMPC043	Power Connector for P5043SA/NA				
Connector	HMPC070	Power Connector for P5070SA/B,NA/B,ZA/B, P5101SA/NA/ZA and P5150ZB				
	HMPC043H	Power Connector for P5043SA/B,NA/B (horizontal wire entry)				
	HMPC070H	Power Connector for P5070SA/B,NA/B,ZA/B, P5101SA/NA/ZA and P5150ZB (horizontal wire entry)				
	HEM-WLC-4G	4G wireless communication module, USB interface, no need for additional power configuration				
Communication Extension	HEM-WLC-WIFI	WIFI wireless communication module, USB interface, no need for additional power configuration				
	HEM-WLC-RFID	RFID wireless communication module, RS485 communication, Requires 24VDC power supply				

Type your text

MHB1 & MB1 Options

	Item Name	Model	Specifications
		MHB1-10MB\(\sigma 25-D24SA	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
	MHB1 ma ts*	MHB1-14MB◇25-D24SA	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
_		MHB1-20MB\(\sigma 25-D24SA	12 point 24VDC digital input(6 points 50KHz, 6 points total 5KHz), 8 point relay output or transistor output(4points 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
Main Units		MHB1-24MB\(\sigma 25-D24SA	14 point 24VDC digital input(8 points 50KHz, 6 points total 5KHz), 10 point relay output or transistor output(4points 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
S		MHB1-32MB\(\sigma 25-D24SA	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
		MHB1-40MB\(\sigma 25-D24SA	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
		MHB1-60MB\\$25-D24SA	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
		MB1-4Y♦S	4 points relay or transistor output
		MB1-8XS	8 points 24VDC digital input
		MB1-8Y♦S	8 points relay or transistor output
Righ		MB1-8XY♦S	4 points 24VDC digital input, 4 points relay or transistor output
tSid	DIO Evanaion	MB1-16XS	16 points 24VDC digital input
e Ex	DIO Expansion Modules	MB1-16Y♦S	16 points relay or transistor output
oans		MB1-16XY♦S	8 points 24VDC digital input, 8 points relay or transistor output
Right Side Expansion Modules		MB1-24XY♦S	14 points 24VDC digital input, 10 points relay or transistor output
lodu		MB1-40XY♦S	24 points 24VDC digital input, 16 points relay or transistor output
es		MB1-60XY♦S	36 points 24VDC digital input, 24 points relay or transistor output
		MB1-2DAS	Non-Isolated 2 channels, 12-bit analog output module(-10~10V, 0~10V or -20~20mA, 0~20mA)
	AIO Modules	MB1-6ADS	Non-Isolated 6 channels, 12-bit analog input module (-10~10V, 0~10V or -20~20mA, 0~20mA)
		MB1-L2DAS	2 channels, 12-bit analog output module (0~10V or 0~20mA)
_	AIO Modules	MB1-L4ADS	4 channels, 12-bit analog input module (0~10V or 0~20mA)
Left Side		MB1-L2A2DS	2 channels, 12-bit analog input + 1 channel, 12-bit analog output combo analog module (0~10V or 0~20mA)
		MB1-L4NTCS	4 channels, NTC temperature input module, 12-bit resolution , measuring range $100\Omega\sim100 \mathrm{K}\Omega$
xpar		MB1-CM2S	1 port RS232(Port4) communication module
nsion		MB1-CM5S	1 port RS485(Port4) communication module
Expansion Modules	Communication	MB1-CM22S	2 ports RS232 communication module
ules	Modules	MB1-CM55S	2 ports RS485 communication module
		MB1-CM25S	1 port RS232(Port1) + 1 port RS485(Port2) communication module
		MBs-CM25C	General purpose RS232 to RS485/RS422 communication interface converter with photocouple isolation
	General Purpose Communication	MBs-CM5R	General purpose RS485 repeater with photocouple isolation
	Converters	MBs-CM5H	General purpose 4 ports RS485 HUB with photocouple isolation, RS485 can be connected as star connection
MHB1	Bluetooth Communication Module MBs-B2C Bluetooth Module for PLC Main Unit Port 0		
MHB1 & MB1 Peripherals	USB Communication Converter	MBs-U2C-MD-180	Communication converter cable with standard USB AM connector to RS232 Mini-DIN 4M connector (used in standard PC USB to MBs
ript		MBs-232P0-9F-150	Mini-DIN 4M to DB9F communication cable (MBs main unit Port 0 RS232 connect to standard DB9M), length 150cm
neral	Communication	MBs-232P0-9M-400	Mini-DIN 4M to DB9M communication cable (MBs main unit Port 0 RS232 connect to standard DB9F), length 400cm
S	Communication Cable	MBs-232P0-MD-200	Mini-DIN 4M to Mini-DIN 4M communication cable (MBs main unit Port 0 RS232 connect to MBs-PEP/PEPR), length 200cm
			, , , , , , , , , , , , , , , , , , , ,
		MBs-232P0-MDR-200	Mini-DIN 4M to 90° Mini-DIN 4MM communication cable(MBs main unit Port0 RS232 connect to MBs-PEP/PEPR), length 200cm