



屏通科技股份有限公司 CERMATE TECHNOLOGIES INC

of **IoT**.



CATALOG **FIRST GENERATION**



www.cermate.com

Worldwide Cermate Partners

If you have any questions or need further information regarding Cermate products, please find below information to contact us. We will study your needs and promptly suggest to you the best solutions.

Australia - Autech Control Group Pty Ltd France - IP Systemes Germany / Switzerland - Pericom AG India - DEVANSHI ELECTRONICS PVT LTD Italy - KITE automation srl

Malaysia - IKA AUTOMATION SDN BHD Middle East - PARS MECHARTRONIC INDUS., CO. Ltd.

Taiwan

Cermate Technologies Inc. 7F.-1, No.168, Liancheng Rd. Zhonghe Dist., New Taipei City 235, Taiwan (R.O.C.) TEL: (+886)-2-22437000 E-mail: service@cermate.com

China, Shanghai

Cermate Technologies (Shanghai) Inc. Room 23D, Peakway Tower No.2, Lane 600, Tianshan Rd. Shanghai, China, 200051 TEL: (+86)-21-51758590~2 E-mail: sales@panelmaster.com.cn

China, Shenzhen

Shenzhen Cermate Technologies Inc. West 5F C2 Building, GuangHaoFeng TECH Park, Hangcheng BLVD Gushu Xixiang St., Baoan Dist., Shenzhen, China TEL: (+86)-755-83562179 (+86)-755-83562802 E-mail: sales@cermate.com

Netherlands - Delmation Products BV Romania - SC Automation Software Lab SRL Spain - INTRA automation s.l. Thailand - E-Power Service Co., Ltd Turkey - Ratek Otomasyon ve Elek. San. Tic. Ltd. Şti. Uruguay - Secoin S.A. USA - OffPeak Technologies LLC

K/T/X-Series

K-Series Economy HMI Panels T-Series Enhanced HMI Panels X-Series Advanced HMI Panels





www.cermate.com

Please verify specifications before quoting. This guide is intended for reference purposes only. All product specifications are subject to change without notice No part of this publication may be reproduced in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission of the publisher. All brand and product names are trademarks or registered trademarks of their respective companies. © Cermate Technologies Inc. 2014





X-SERIES Products Selection Guide Advanced HMI Panels (For General Product Group)

The X-series supports comprehensive LCD sizes ranging from 7" to 15" and are equipped with an ARM11 based CPU, 1G flash memory and 1MB battery backup memory. It's expansive communication interfaces; RS232/422/485, Ethernet, and USB port, with over 300 communication drivers allowing the X-series to connect easily with all types of equipment, such as motion/thermal controllers, inverters or sensors to name a few.

- 7"~15" TFT LCD screen size
- · Wide temperature & high functionality
- BACnet, Ethernet IP, Video In

PX150-XSD	PX121-XSD	PX104-TST	PX070-WST
15" (4:3)	12.1" (4:3)	10.4" (4:3)	7" (16:9)
1024 x 768	1024 x 768	800 x 600	800 x 480

0120	10 (4.0)	12.1 (4.0)	10.4 (4.0)	1 (10.0)
Resolution	1024 x 768	1024 x 768	800 x 600	800 x 480
Working Memory	256 MB	256 MB	256 MB	256 MB
Built-in Storage Memory	1 GB	1 GB	1 GB	1 GB
Battery Backed RAM	1 MB	1 MB	1 MB	1 MB
COM1	RS232/422/485	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C*	A/B/C*	A/B/C*	A/B/C*
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485	RS232 or RS485
COM4	RS422/485**	RS422/485**	RS422/485**	RS422/485**
USB	1 Client ; 1 Host			
Audio Out	Optional	Optional	Optional	Optional
Video In	Optional	Optional	Optional	Optional
Real-Time Clock (RTC)	Yes	Yes	Yes	Yes
Micro SD Slot	Yes	Yes	Yes	Yes
UL Certification	Yes	Yes	Yes	Yes

* A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS

** RS422/485 (Isolated, optional)



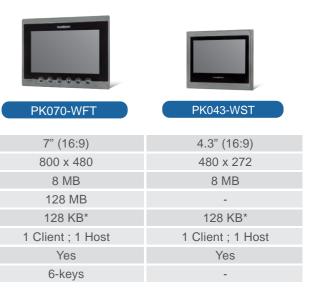


The K-series supports comprehensive LCD sizes ranging from 4.3" to 10.1" and are equipped with an ARM9 based CPU, 8M flash memory and 128KB battery backup memory. Its expansive communication interfaces; RS232/422/485, Ethernet, and USB port, with over 300 communication drivers allowing the K-series to connect easily with all types of equipments, such as motion/thermal controllers, inverters or sensors to name a few.

- 4.3"~ 10.1" wide screen TFT LCD size
- Suitable for simple & compact application
- Slim. cost effective

	0-0-0-0-0-0
	PK100-WFT
Size	10.1" (16:9)
Resolution	1024 x 600
NOR Flash Memory	8 MB
NAND Flash Memory	128 MB
Battery Backup Memory	128 KB*
JSB	1 Client ; 1 Host
Real-Time Clock (RTC)	Yes
Front Function Keys	7-keys

* 1MB Battery Backed Memory Optional







-SERIES Products Selection Guide Enhanced HMI Panels (For General Product Group)

The T-series supports comprehensive LCD sizes ranging from 4.3" to 15.0" and are equipped with an ARM9 based CPU, 8M flash memory and 128KB battery backup memory. Its expansive communication interfaces; RS232/422/485, Ethernet, and USB port, with over 300 communication drivers allowing the T-series to connect easily with all types of equipments, such as motion/thermal controllers, inverters or sensors to name a few.

- 4.3"~15" TFT LCD screen size
- Meets General Machinery Application
- RTC; Flash memory; Historical Data Record; Alarm Data Record

The T-series is equipped with a high resolution TFT LCD contains 65536 colors and LED back light, which gives the display brighter look, and is more clear for highly precise operations. To confront the severe environment setting of some factories, the T-series complies with IP66 and allows for an operating temperature -10~60°C. Moreover, Cermate also provides some options for customers to shape their own HMI tailored to their needs. For example, an aluminum front case is suited for those who prefer a more fashionable design or to operate the HMI under more harsh environment; NAND flash and micro SD provide extending the capacity of HMI; different COM port options provide additional flexibility for customers. All those features bundle with our easy-to-use programming software, PM Designer, provides you perfect automation solutions.

	PT150-XSD	PT104-TST	PT100-WST
	15" (4:3)	10.4" (4:3)	10.1" (16:9)
lution	1024 x 768	800 x 600	1024 x 600
Flash Memory	8 MB	8 MB	8 MB
D Flash Memory	128 MB*	128 MB*	128 MB*
ry Backup Memory	128 KB**	128 KB**	128 KB**
1	RS232/422/485	RS232/422/485	RS232/422/485
2	A/B/C***	A/B/C***	A/B/C***
3	RS232 or RS485	RS232 or RS485	RS232 or RS485
4	-	-	-
	1 Client ; 1 Host	1 Client ; 1 Host	1 Client ; 1 Host
Time Clock (RTC)	Yes	Yes	Yes
Function Keys	-	-	7-keys (Optional)
USB Host Port	-	Yes (Optional)	Yes (Optional)
SD Slot	Yes	Yes	Yes
ertification	Yes	Yes	Yes

* 128MB NAND Flash only for sub-number 2 and 4

** 1 MB optional

** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS





PT080-TST	PT

	PT080-TST	PT070-WST	PT043-WST	PT043-WSP
Size	8" (4:3)	7" (16:9)	4.3" (16:9)	4.3" (16:9)
Resolution	800 x 600	800 x 480	480 x 272	480 x 272
NOR Flash Memory	8 MB	8 MB	8 MB	8 MB
NAND Flash Memory	128 MB*	128 MB*	128 MB*	-
Battery Backup Memory	128 KB**	128 KB**	128 KB**	128 KB**
COM1	RS232/422/485	RS232/422/485	RS232/422/485	RS232/422/485
COM2	A/B/C***	A/B/C***	A/B/C***	RS422/485
COM3	RS232 or RS485	RS232 or RS485	RS232 or RS485	RS232 or RS485
COM4	-	-	-	-
USB	1 Client ; 1 Host			
Real-Time Clock (RTC)	Yes	Yes	Yes	Yes
Front Function Keys	-	6-keys (Optional)	-	23-keys
Front USB Host Port	-	Yes (Optional)	-	-
Micro SD Slot	Yes	Yes	Yes	-
UL Certification	Yes	Yes	Yes	-

* 128MB NAND Flash only for sub-number 2 and 4

** 1 MB optional

** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS

NAN

Batter COM COM COM COM USB Real-

Fron Micro

T-Series Products Selection Guide



GX-SERIES Products Selection Guide

(For General Product Group)

The GX series is a WinCE based HMI with an LCD size ranging from 7" to 15". GX is also equipped with 256MB working memory and 1GB of storage memory, that will provide a high performance operation. All the series uses a high resolution color TFT LCD with LED back light to ensure a clear display and a longer backlight life. The ultra slim design is fashionable and easily-mounted. The design is not only stylish, but made of a robust structure enabling the GX series to be used in any stringent environment.

• WinCE OS, 2D Graphic Engine; Real-Time Data Memory

GX615-XSD

15" (4:3)

1024 x 768

256 MB

1 GB*

1 MB

RS232/422/485

A/B/C**

RS232 or RS485

1 Client ; 1 Host

Yes (optional)

-

Yes

Yes

Yes

The rich communication interface of the GX series includes; 3 COM ports, Ethernet and 2 USB ports (1client, 1host), which can provide an easy connection with other devices. The GX is also customizable for your specific needs, so that we can accommodate your unique requirements. Here are some customized options: aluminum front case, audio function and micro SD or NAND flash. The GX series is what Cermate presents for open HMI users who desire for high performance products.

GX611-WST

Size	10.1" (16:9)
Resolution	1024 x 600
Working Memory	256 MB
Built-in Storage Memory	1 GB*
Battery Backed RAM	1 MB
COM1	RS232/422/485
COM2	A/B/C**
COM3	RS232 or RS485
COM4	-
USB	1 Client ; 1 Host
Audio Out	Yes (optional)
Video In	-
Real-Time Clock (RTC)	Yes
Micro SD Slot	Yes
UL Certification	Yes

* 64MB: WinCE OS, 1GB~64MB: User

** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS

** A: RS422/485 B:RS232/485 C: RS232 with RTS&CTS

* 64MB: WinCE OS, 1GB~64MB: User

Real-Time Clock (RTC)

Resolution

COM1

COM2

COM3

COM4

Video In

Micro SD Slot

UL Certification

Built-in Storage Memory



GX612-XSD

12.1" (4:3)

1024 x 768

256 MB

1 GB*

1 MB

RS232/422/485

A/B/C**

RS232 or RS485

1 Client ; 1 Host

Yes (optional)

-

Yes

Yes

Yes



GX610-TST

10.4" (4:3)

800 x 600

256 MB

1 GB*

1 MB

RS232/422/485

A/B/C**

RS232 or RS485

1 Client ; 1 Host

Yes (optional)

-

Yes

Yes

Yes







800 x 600 256 MB 1 GB* 1 MB RS232/422/485 A/B/C** RS232 or RS485 1 Client ; 1 Host Yes (optional) -Yes Yes

Yes



GX607-WST

7" (16:9)	
800 x 480	
256 MB	
1 GB*	
1 MB	
RS232/422/485	
A/B/C**	
RS232 or RS485	
-	
1 Client ; 1 Host	
Yes (optional)	
-	
Yes	

Yes

Yes





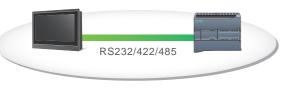
Hardware Feature—Communication

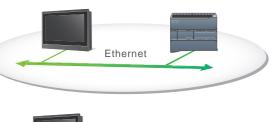
General Description

You can use serial port or ethernet to complete different type of communications. You can communicate with 1 or multiple devices directly or indirectly

Various Communication Links

Direct Link







▶ 2 to 1 connection

► N-to-1 Communication



Sub-link

Using RS485 serial connection to link

temperature controllers and intelligent sensors. Users can activate/stop the sub-link

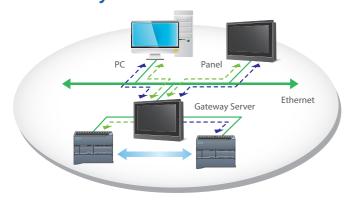
and save the communication status.

multiple device with same protocol, such as

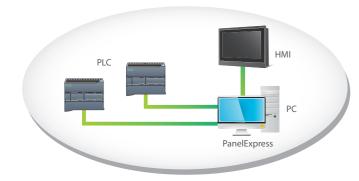
► 2 to 1 transparent connection

2-to-1 transparent server Other Panel PM Pane

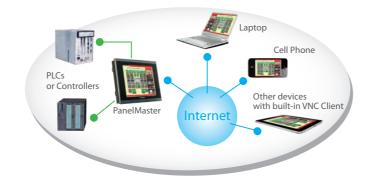
► Gateway Service



DPC Client



> VNC Server



N-to-1 Connection Master



Cermate provides total HMI solutions for all types of automation applications.





Building Automation

In building automation, the HMI provides an economic and easy answer for those who need integrating and systematic solutions. Elevators, power system management, AC and alarm systems can be integrated into a more intelligent product solution. You can manage, supervise and record more easily than you've ever experienced before.

Remote Control

88

Factory Automation

The HMI is booming in the Factory Automation field. With a more accessible price, friendly operations and wide range of selection, successful applications are seen everywhere in our daily life. The automation system for a manufacturing process will provide a more stable output and save you time and expense.

Machine Automation

 In the scope of industrialization, automation is required to provide an efficient and precise way of manufacturing. Machine automation can provide operators assistance with physical work, and greatly decrease the need for human sensory as well as mental fatigue. In a production line of machines, the HMI takes the helm of the automation process and helps you manage the whole system from top down.

Æ



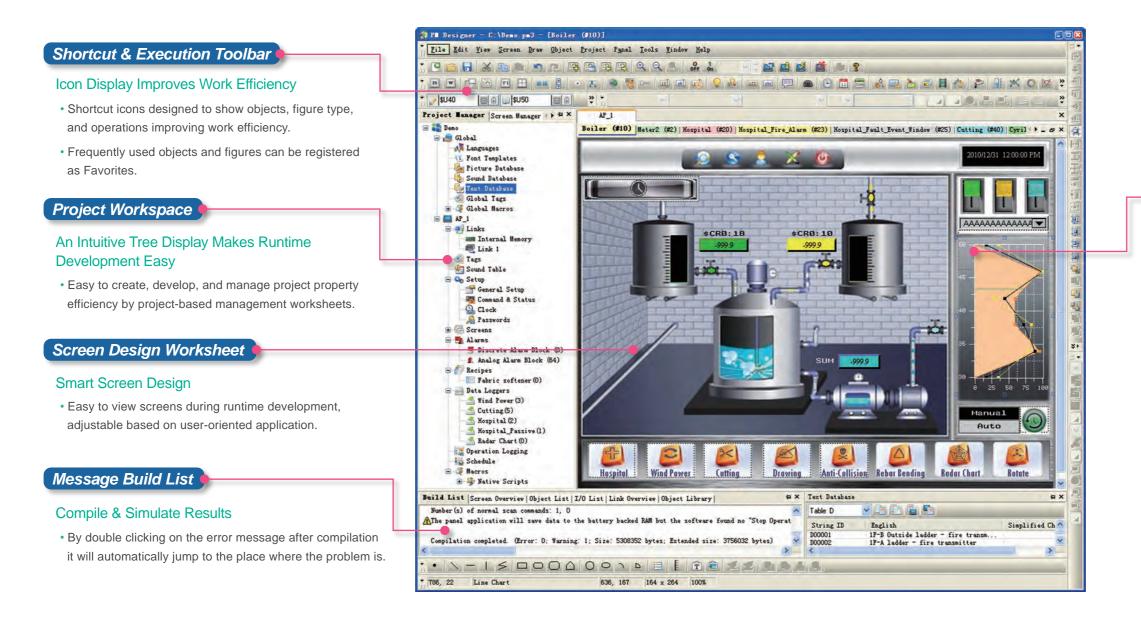
HMI Development Software - PM Designer



PM Designer is proven in many application fields and is an easy to use integrated development tool featuring solution-oriented screen objects, high-end vector graphics, Windows fonts for multi-language applications, recipes, alarms, data loggers and operation logging. PM Designer also includes online/offline simulation and other utility programs such as Data Transfer Helper (DTH); recipes editors and text editors. PanelMaster runtime, a part of PM Designer, guarantees reliability and performance because of the minimum system overhead, high communication data rates, sub-second screen switching, and 24/7 operation.

Software Features

- Allows users to switch multi-language UI dynamically, with Unicode and multilingual screen text supported. • Provides index registers for modifying device addresses at runtime.
- Provides password protection of designs, macros and upload/download operations.
 Operation log helps the review and investigation of important events.
- Allows to download the runtime data using serial port, Ethernet, USB and Micro SD card.
 Allows the use of USB memory sticks for trouble-free
 Supports over 380 industrial communication protocols, such as SIMATIC S7-1200, BACNet
 MSTP/BACNet IP, and more.
- Allows the use of USB memory sticks for trouble-free application updates.



Dialog Box

- The property dialog is displayed by double-clicking the object or figure.
- Figure changes are immediately reflected on screen, thereby simplifying the process and reducing setting errors.
- Easy to set the properties through pop-up dialog box.

D: LC0000	Note:		
	Shape		
	Transparent		
		Border Color:	
	BG Color	Chart BG Color	
Data Type: 16-Bit Unsign	ed Integer	Show Cursor	
Read Trigger W100.0		Cursor Color:	
Read Address W0	80	Value Display Fonk 8x12	8
Number of Data Sets: 8		Cursor Data Receiving Buffer:	
Maximum Number of Data	Points Per Data Set 5	11.00	
Point Distribution	Direction	Dynamic Range	
Maximum Points	From Left To Right	Dynamic Range Parameter Block:	
C Actual Points	From Bottom To Top	W300	
Show Mark			
Show Line			
Clear Trigger: W100.1			

PM Designer Software

Efficient Project-based Structure to Manage Multiple Applications

Powerful integrated development studio

- One project can have many applications.
- The project tree provides all you need to manage a project.
- Global settings and resources sharable to all applications in a project.
- You can make the most out of existing projects by import/export functions for all kinds of settings.
- Containing entire project in one file makes the maintenance job easy.

Software Functionalities to Satisfy Various Needs

Possible to achieve a mini-SCADA system

- 10 sets of languages and 20 fonts for each language (TrueType fonts supported)
- 4 communication links with the option to add more RS-485 and TCP/IP sub-links.
- 1 startup macro; 1 main macro; 4 event macros, 4 time macros, no limitation on other kinds of macros
- 64 discrete and 64 analog alarm blocks, 16 recipe blocks and 16 data loggers.
- 1 operation logger, 80 schedules, 7999 screens.

User Friendly Tools to Make Customized Designs Easier and More Efficient

Intitive screen editor and toolbars

- Real-time WYSIWYG allows you to see the change of object appearance at any time.
- Property dialogs with semi-transparent features will not block your view to screen objects anymore.
- Overlapped objects' properties can be changed by double-clicking the top object.
- Automatic size adjustment of characters and pictures according to the object size is supported.
- Groups a number of objects to move, resize, and modify the common attributes.
- Rotate a picture or change its tone to fit the need of an object.

Top-down approach for planning and complete understanding of the application

Centralized configuration tools

Screen Manager - A tool for configuration and management of multiple screens Screen Overview - Organizing Application Screens in a Graphical Way Link Overview - A graphical tool for defining the communication configuration project wise Object Library - Sharing the User-defined Objects Object List - Displaying all the objects with associated I/O points of a screen in a list

I/O List - Showing all the I/O points with their purposes of an application in a table

Changing HMI Model Can Be Done in Seconds

Automatic size adjustment

- When changing the screen resolution, all the screen objects are automatically resized to maintain the relative positions and size ratios to the original screens.
- The screen orientation at run time can be predefined in landscape and portrait



Auto Resizing, rotating & tone

-

11 40 10

🚮 Global Tags

Internal Memory

AP 1

S Tags

± 💊 Setup

± Screens

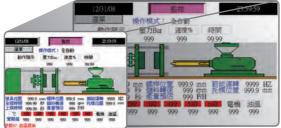
🗄 🐴 Alarms

TRecipes

📑 Data Loggers

📑 Operation Logging 🔂 Schedule

Sound Table



5.7" 640x480



Thousands of Professional Pictures are provided to Beautify Your Screens

Picture libraries and picture database

- Famous industrial pictures from Symbol Factory are ready for use.
- Manufacturer made pictures are ideal for your buttons, lamps, and symbols.
- You can make your own picture libraries.
- The types of importable picture files include: BMP, JPG(JPEG), GIF, WMF, SVG(Scalable Vector Graphics) and PNG.

Simple Text Mapping Table Fulfills the Needs for Multiple Languages Text database and text editor

- Text database, a collection of text tables, contains editable strings for all supported languages in the project. It supports import/export texts in MS Excel.
- Text Editor, a convenient tool for preparing and reusing text among projects, can edit all screen texts in multi-languages.

Secure Intellectual Properties

Design Protection

- Project files, screens, macros, and password tables can be protected by different passwords.
- Copying and uploading of an application can be prohibited in advance.
- Automatically recovers data from damaged or unsaved file
- The developer password of a project or a PRP password is required to transfer an application to a HMI.

Multilanguage Enabled UI and Applications

Multilanguage

- You can display the user interface (UI) in different languages.
- You can develop multi-language application in at most 10 languages. - You can enter an ASCII or Western European or Cyrillic or simplified Chinese
- string for a variable using a character entry at runtime.

> Plenty of Solution-oriented Screen Objects

Objects

Provides more than 70 different kinds of objects for common HMI needs, animation, sophisticated functions or industrial specific.

Supplementing and Extending Configuration for More Advanced Use Cases

Advanced Object settings

- Showing readable or precise information according to dynamic data range, scale range, and time range settings
- Displaying gualified records in alarm display and historic data table according to the query conditions.

www.cermate.com



in distant	senio en inselante

PanelMaster symbols (.BMP)









Parisn Programmer

G Code Editor

		2000/	111 0	0.0	-	3099	112 (31) 23 (39) 99	Commit Named 197 214 5
		Detti						Longia
			125 15:16:21		1214		Field Brent Cleve	2F-B Charate lodder , fire transmitter
			125 13 16 30		65	4	Monker Breat Care	19 acres statute - Rie mannelmes
			05 13.1619			4	Monitor Eveni Acharwielge	Patient Room 221 - Exhaust fat
		2012/13	45 45 16:11	1 13		4	Master Bent Adarwicky	28-8 Domide ladder - F
		201213	25 15161	1 90	19.		Mushie Brest Clear	D Sumo Socia De
		2012/11	25 13 16:0	192-	1.00	4	Fits Alaca Action belgs	19-30 Conside Indian of
		201201	25 131613	5 127	150		Manine Real James	19-D Quesile Indian -
Dynamic Blange	Divisio Surge		23 1316.54		113	4	Mailes Real Class	2F-D Comain Judice
Fork @ 648 () 8412 () 12416	Fork GIAS CIENT CIT245	201201	25 15 16 1	234	110-	4	Manine Front Arknowledge	If Reason Reads Too
		are-						
Show Maka	Silow Madas	100						
	1				_			Contraction of the local division of the loc
-		1 1 1	- 21			*		
Show Y-Aver Brd	Show X.Aver Ged	*			1000			
Show Ticks	Show Ticks							
eber. Taki		-			- 11			
	Yaa							
yas:		100	1.0	Concession in which the Party number of the Pa	and the local division of the local division			

PM Designer Software

Provides Complete Recipe Handling Functions

Recipe blocks

- Support up to 16 different groups of recipes.
- Transfer of recipes between PanelMaster and PLCs/files is supported.
- With Recipe Editor you can edit recipes on a PC.
- Many screen objects support recipe data.

Versatile Alarm Monitoring and Display Capabilities

Alarm processing

- Up to 64 discrete alarm blocks and 64 analog alarm blocks can be monitored and recorded.
- Up to 8 data values can be read and recorded along with an alarm event.
- A global alarm marquee is supported.
- Saving the logged alarms to a file is supported.

Operations Can Be Recorded for Improving Quality and Efficiency

Operation logging

- The starting time and the stopping time of an application can be recorded.
- The failure of a communication link can be recorded.
- Operation Log Display lists the logged operations process for the operator to review

Easy to configure data collections and historic data displays

Data loggers

- Can collect data from up to 16 different data sources.
- Data collection can be activated according to a set time or a trigger bit.
- You can save/load collected to/from a file by a function button or macro program.
- Use data logging macro to log processed data instead of original data.
- Use passive data logger to receive data from the primary data logger or a file



> Performing a specified operation at the designated time

Schedule

- Each schedule can be programmed to either change the value of a specified PLC location or execute a specified macro at the designated time
- Up to 80 schedules can be registered in a panel application
- Enable or disable power- on action or end action
- Operator can use Schedule setting table to modify pre-defined schedule at runtime.



Easy-to-use Script Editor and Commands Script editor and native script commands

- Easily compose native scripts for HMI using useful and reliable script commands with simple syntax and convenient instant help messages
- Scripts are useful for operations not supported in standard object or feature of PM Designer, such as sequential operations, conditional operations, interactive operations, file operations, data exchange between two connected devices, etc.
- Possible to implement simple communication driver.

Offering cross-user consistency, navigation efficiency and compliance Tag Management

- By changing tags, you can use any PLC or controller without re-developing the application.
- You can define a tag or an array tag or a structure tag to represent an address or a memory block for the application.
- Tags can be added, renamed, deleted, imported and exported, etc.

Checking, integrating, and optimizing an application intelligently Compiler

- Checks the correctness and consistency of all the settings and designs.
- Optimizes the communications with connected devices
- Translates macros into compact and ready-to-execute codes.
- Builds runtime data to be executed by the HMI.

Reduce Time and Effort to Boost Performance through Advanced Simulations Offline simulation and online simulation

- Offline simulation function can help to experience your design result even before decide to purchase this model
- Evaluates the communication performance using online simulation before installation.

Provides Various Choices for Application Runtime Data Transfers Data Transfer Tool & Data Transfer Helper (DTH)

- Uses PM Designer or DTH to transfer an application's runtime data to a PanelMaster through a serial port, an Ethernet port, or a USB port anytime when that PanelMaster is running. (Some PanelMaster models may not have a client USB port to support the data transfer.)
- Without a PC, transfers an application's runtime data to a PanelMaster by using an USB memory stick or Micro SD card.

Providing all the necessary documents for the developers using the software Help and Release Notes

- Use the search interface to return all documents that match any specified term or set of terms.
- Browse the table of contents which including reference documentation, sample codes, technical articles and more. It is in HTML format and contains over 500 topics and 1000 pictures.
- Use index to jump to some of the most popular functions or features of the software.
- Browse the changes or enhancement made to the features of the software.



Alarm Count

Alarm Screen

Alarm Sound

1/08/09 16:56:25 Button is clicked. (ON) 31/08/09 16:56:19 Cleared the operation history 896.7 Clear Button **Operation Log Display**

Operation Log Display De

31/08/09 16:56:33 Button is dicked. (OFF) 31/08/09 16:56:32 Scrolled the slide switch (318)

1/08/09 16:56:53 Scrolled the slide switch (637) 31/08/09 16:56:49 Inputted a new value (896.7)

1/08/09 16:56:29 Inputted a new value (5.0)

- - Historic Trend Graph

PM Designer Software



tilinini ini

11 M 10 M

LEPE.
 LEPE.

ALLEY BRIDGE OF

10.0

elle kins	
Started to couple df.]	- 1
Greeting Eils D VD02 SPSVEnsLVMems, New J. J. J. pall	
Afaranag, samalid atartug acress	
Offeren - Annufficiant buttery bached nevery for Keripe Rich 0	
Proceeding acress B40 (Curting)	
Contras (Catting (96)) : Path Display (and De gellit velle) : Brear : algort ant of screek reage	
Rather(u) of soreal uses convents: 0, 3	
Presenting ecross #6 Eprellic Repol!	
Subsr(z) of sored, concentrate (2, 0	
Diversing serens 620 (Respired)	
Chrosen Meggital (201) Buseris Intryfertift poets enite hold) frere frete attrast O fie attrast specified	
Corver Maginal (60) Reserve Lawrence with well with lawr Courter admins the angest meeting	
Baker(s) of arreal stan classifier 5. 0	
Protesting Laren #24 Okaphtil Failt Brent)	- 1

401,940 101400 001,054 001,054 001,054 001,054 001,054 001,054 001,054 001,054 001,054 001,054 001,055 001,

Katery
 Katery





Welcome to the Calla Transfer Helper	
Francisco Franci	
* integrited outer / integrited bolts	
C for second locks C for logal manifested	
Clarings delivered Classe ups delivered	
Consistential Classeshillering	
Chattentian Colombiantian	
Contraction - Contraction of	
tran di ana sunti in consecto dis Fassi	
Lis Tellego	
Charlenger # Ehren	
PARTY (CONTROL PARTY)	-
a manufacture of the second	~
West to surgestime	
Present.	
traine .	
Income the fee	
	There is a







Model Name		PX150-XSD	PX121-XSD	PX104-TST	PX070-WST	
	Sub-Models	4 / 6	4 / 6	4 / 6	4 / 6	
	Size	15"	12.1"	10.4"	7"	
	Max. Resolution	1024*768	1024*768	800*600	800*480	
	Туре		TFT LCD with	LED Backlight		
Display	Max. Colors					
	Backlight Life (hr)	50000	50000	20000	20000	
	Display Contrast	700	700	400	500	
	Luminance (cd/m2)	350	500	400	300	
1	Touch Panel	5-wire Analog Resistive Type 4-wire Analog Resistive Type				
	CPU		RISC ARM	11 800MHz		
Batte	ry Backup SRAM		1 N	1B		
Wc	orking Memory		256	MB		
NAN	ND Flash ROM		10	BB		
Real-1	Time Clock (RTC)		YE	S		
	Micro SD Slot		YE	S		
L L	USB Client		YES (U	SB 2.0)		
catic	USB Host	YES (USB 1.1)				
nmunicati Interface	COM1 / COM3	COM1: RS232/422/485, COM3: RS232 (optional: RS485)				
Communication Interface	COM2	A-R	S422/485 B-RS232/48	5 C-RS232 with RTS&C	CTS	
ŏ	COM4		Sub-Model 6	Sub-Model 6: RS422/485		
	Ethernet	YES				
Fron	t Function Keys	N/A				
Audi	o Out (optional)	Sub-Model 6: YES				
Vide	eo In (optional)	Sub-Model 6: YES (Video Module Depth= 20mm)				
Fron	t USB Host Port	N/A				
Power	Input	24VDC±10% Isolated				
	Consumption	20W				
	Operating Temperature	-20°C~60°	C (-25°C~70°C optiona	I with AL front, CE cert	ified only)	
	Relative Humidity		10%~	-90%		
ent	Shock (operation)	10~	55Hz (X,Y,Z direction,	1G, 30 Mins shock test	ing)	
muc	EMI		FCC Part ?	15 Class A		
Environment	CE		EN61000-6-2,	EN61000-6-4		
ш	UL Certification		YE	S		
	Ingress Protection		IP			
	Cooling		Natural	Cooling		
	sion WxHxD (mm)	399.1 x 297.6 x 55.0	317.4 x 243.8 x 58.0	280.3 x 222.3 x 45.0	213.6 x 158.6 x 40.5	
	Dimension AxB (mm)	384.5 x 283.0	301.5 x 228.0	259.5 x 201.5	192.0 x 138.5	
Ne	et Weight (kg)	2.68	1.9	1.25	0.8	

LISTED PROG. CNTLR. E465558

Specification of K-Series



М	odel Name	PK100-WFT	PK070-WFT	PK043-WST			
Ş	Sub-Models	20 / 40	20 / 40	10 / 30			
	Size	10.1"	7.0"	4.3"			
	Max. Resolution	1024*600	800*480	480*272			
	Туре		TFT LCD with LED Backlight				
Display	Max. Colors		16-bit				
	Backlight Life (hr)	20000	20000	20000			
	Display Contrast	500	500	500			
	Luminance (cd/m2)	150	250	250			
1	Touch Panel		4-wire Analog Touch Panel				
	CPU		RISC ARM9 32Bit				
Batte	ry Backup SRAM		128KB (optional: 1MB)				
Wc	orking Memory		32MB				
Built-ir	n Storage Memory	8MB+128MB(NAND Flash)	8MB			
Real-1	Time Clock (RTC)		YES				
	Micro SD Slot		N/A				
c	USB Client	YES (USB 2.0)					
atio ce	USB Host	YES (USB 1.1)					
unic erfa	СОМ1 / СОМЗ	COM1: RS232/RS422/RS485, COM3: RS232 (optional: RS485)					
Communication Interface	COM2	N/A					
ပိ	COM4	N/A					
	Ethernet	Sub-Model 40: YES Sub-Model 30: YES					
Front Function Keys		7-keys	6-keys	N/A			
Audi	o Out (optional)		N/A				
Vide	eo In (optional)		N/A				
Fron	t USB Host Port		N/A				
	Input		24VDC±10% Isolated				
Power	Consumption	20W	20W	10W			
	Operating Temperature		0°C~50°C				
	Relative Humidity		10%~90%				
nt	Shock (operation)	10 ~ 55Hz(X	,Y,Z direction, 1G, 30 Mins sh	ock testing)			
Environment	EMI		FCC Part 15 Class A				
viroı	CE		EN61000-6-2, EN61000-6-4				
С Ш	UL Certification		N/A				
	Ingress Protection		IP65				
	Cooling		Natural Cooling				
Dimen	sion WxHxD (mm)	270.1 x 212.1 x 42.5	203.5 x 149.0 x 33.0	130.0 x 106.2 x 39.0			
Cutout Dimension AxB (mm)							
	imension A <u>xB (mm)</u>	259.5 x 201.5	192.0 x 138.5	119.0 x 93.0			

17

Specification of X-Series / K-Series









Specification of T-Series



М	odel Name	PT150-XSD	PT104-TST	PT100-WST		
Sub-Models		4	2 / 4	2 / 4		
	Size	15"	10.4"	10.1"		
	Max. Resolution	1024*768	800*600	1024*600		
	Туре		TFT LCD with LED Backlight			
Display	Max. Colors		16-bit			
	Backlight Life (hr)	50000	20000	20000		
	Display Contrast	700	400	500		
	Luminance (cd/m2)	350	400	150		
-	Touch Panel	5-wire Analog Resistive Type	4-wire Analog	Resistive Type		
	CPU		RISC ARM9 32Bit			
Batte	ry Backup SRAM		128KB (optional: 1MB)			
Wc	orking Memory		64MB			
Built-in	Storage Memory	Sub-Mo	odel 2 / 4: 8MB+128MB (NAND) Flash)		
Real-	Time Clock (RTC)		YES			
Micro SD Slot			Sub-Model 2/4: YES			
c	USB Client	YES (USB 2.0)				
atio ce	USB Host	YES (USB 1.1)				
nmunicati Interface	COM1 / COM3	COM1: RS232/422/485; COM3: RS232 (optional: RS485)				
Communication Interface	COM2	A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS				
ő	COM4	N/A				
	Ethernet	Sub-Model 4: YES				
Front Function Keys		N/A	N/A	7-keys (optional)		
Audi	o Out (optional)		N/A			
Vid	eo In (optional)		N/A			
Fron	t USB Host Port	N/A	USB 1.1 (optional)	USB 1.1 (optional)		
D	Input		24VDC±10% Isolated			
Power	Consumption		20W			
	Operating Temperature		-10°C~60°C			
	Relative Humidity		10%~90%			
t	Shock (operation)	10 ~ 55Hz(>	K,Y,Z direction, 1G, 30 Mins sh	ock testing)		
nme	EMI		FCC Part 15 Class A			
Environment	CE		EN61000-6-2, EN61000-6-4			
Ē	UL Certification		YES			
	Ingress Protection		IP66			
	Cooling		Natural Cooling			
Dimen	sion WxHxD (mm)	399.1 x 297.6 x 55	270.1 x 212.1 x 42.5	270.1 x 212.1 x 42.5		
utout D	Dimension AxB (mm)	384.5 x 283.0	259.5 x 201.5	259.5 x 201.5		
Ne	et Weight (kg)	2.68	1.2	1.2		

LISTED PROG. CNTLR. E465558

US

(***

-10°C 60°C



Μ	odel Name	PT080-TST	PT070-WST	PT043-WST	PT043-WSP	
	Sub-Models	2 / 4	2 / 4	1 / 4	1	
	Size	8"	7"	4.3"	4.3"	
	Max. Resolution	800*600	800*480	480*272	480*272	
	Туре		TFT LCD with	LED Backlight		
Display	Max. Colors					
	Backlight Life (hr)	20000	20000	20000	20000	
	Display Contrast	500	500	500	500	
	Luminance (cd/m2)	250	300	400	250	
٦	Touch Panel		4-wire Analog	Resistive Type		
	CPU		RISC AR	M9 32Bit		
Batte	ry Backup SRAM		128KB (opt	ional: 1MB)		
Wc	orking Memory	641	MB	32	MB	
Built-in	Storage Memory	Sub-Model 1: 8MB,	Sub-Model 2/4: 8MB+1	28MB (NAND Flash)	8MB	
Real-1	Time Clock (RTC)		YE			
	Micro SD Slot		Sub-Model 2/4: YES		N/A	
c	USB Client		YES (U	SB 2.0)		
atio ce	USB Host		YES (U	SB 1.1)		
unic erfa	COM1 / COM3	COM	I: RS232/422/485; COM	M3: RS232 (optional: R	S485)	
Communication Interface	COM2	A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS RS422 / 485				
ပိ	COM4	N/A				
	Ethernet	Sub-Model 4: YES		N/A		
Fron	t Function Keys	N/A	6-keys (optional)	N/A	23-keys	
Audio Out (optional)			N	/A		
Vide	eo In (optional)	N/A				
Fron	t USB Host Port	N/A	USB 1.1 (optional)	N/A	N/A	
Demos	Input	24VDC±10% Isolated				
Power	Consumption	20	20W 10V			
	Operating Temperature	-10°C~60°C				
	Relative Humidity		10%~	-90%		
ъ	Shock (operation)	10 ~	55Hz(X,Y,Z direction,	1G, 30 Mins shock test	ting)	
Environment	EMI		FCC Part	15 Class A		
viro	CE		EN61000-6-2,	EN61000-6-4		
Ш	UL Certification		YES		N/A	
	Ingress Protection		IP	66		
	Cooling		Natural	Cooling		
Dimension WxHxD (mm)		231.5 x 174.5 x 42.5	188.0 x 143.3 x 36.0	130.0 x 106.2 x 39.0	172.0 x 102.0 x 30	
Cutout D	Dimension AxB (mm)	221.0 x 164.0	175.0 x 132.5	119.0 x 93.0	160.5 x 89.5	
Ne	et Weight (kg)	0.93	0.6	0.35	0.33	
				PROG	Dus .CNTLR. .S5558 -10°C 60°C	



Specification of T-Series

_	_	_	1
			L
			L
			L
			١.,





Specification of GX-Series





Model Name		GX615-XSD	GX612-XSD	GX610-TST	Ma		
Sub-Models		4 / 5	4 / 5	4 / 5	S		
Size		15"	12.1"	10.4"			
	Max. Resolution	1024*768	1024*768	800*600			
	Туре		TFT LCD with LED Backlight				
Display	Max. Colors		16-bit		Display		
	Backlight Life (hr)	50000	50000	20000			
Display Contrast		700	700	400			
	Luminance (cd/m2)	350	500	400			
	Touch Panel	5-wire Analog	Resistive Type	4-wire Analog Resistive Type	Т		
	CPU		RISC ARM11 800MHz				
Batte	ry Backup SRAM		1MB		Batter		
W	orking Memory		256MB		Wo		
Built-i	n Storage Memory	1GB	(64MB: Built-in Win CE V6.0 R	3 OS)	Built-in		
Real-	Time Clock (RTC)		YES		Real-T		
	Micro SD Slot		YES				
c	USB Client						
atio	USB Host	YES (USB 1.1)					
Communication Interface	COM1 / COM3	COM1: RS232/RS422/RS485; COM3: RS232 (optional: RS485)					
Lnt m	COM2	YES (USB 2.0) YES (USB 1.1) COM1: RS232/RS422/RS485; COM3: RS232 (optional: RS485) YES (USB 1.1) A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS YES (USB 1.1)					
ပိ	COM4		N/A		ပိ		
	Ethernet YES						
Front Function Keys N/A				Front			
Aud	io Out (optional)		Sub-Model 5: YES		Audio		
Vid	eo In (optional)		N/A		Vide		
Fror	t USB Host Port		N/A		Front		
_	Input		24VDC±10% Isolated				
Power	Consumption		20W		Power		
	Operating Temperature	-20°C~60°C (-25°	C~70°C optional with AL front,	CE certified only)			
	Relative Humidity		10%~90%				
t	Shock (operation)	10~55Hz (>	X,Y,Z direction, 1G, 30 Mins sh	ock testing)	Ę		
Environment	EMI		FCC Part 15 Class A		Environment		
viro	CE		EN61000-6-2, EN61000-6-4		viro		
Ē	UL Certification		YES		с Ш		
	Ingress Protection		IP66				
	Cooling		Natural Cooling				
Dimension WxHxD (mm) 39		399.1 x 297.6 x 55.0	317.4 x 243.8 x 58.0	280.3 x 222.3 x 45.0	Dimens		
Cutout Dimension AxB (mm)		384.5 x 283.0	301.5 x 228.0	259.5 x 201.5	Cutout Di		
N	et Weight (kg)	2.68	1.9	1.25	Ne		
		ce f©		Dus 3. CNTLR. 65558 -20°C 60°C -25~70°C (optional)			

М	odel Name	GX611-WST	GX608-TST	GX607-WST		
	Sub-Models	4 / 5	4 / 5	4 / 5		
	Size	10.1"	8"	7"		
	Max. Resolution	1024*600	800*600	800*480		
	Туре	TFT LCD with LED Backlight				
Display	Max. Colors	16-bit				
	Backlight Life (hr)	20000	20000	20000		
	Display Contrast	500	500	500		
	Luminance (cd/m2)	180	250	300		
-	Touch Panel	4-wire Analog Resistive Type				
	CPU		RISC ARM11 800MHz			
Batte	ry Backup SRAM		1MB			
Wc	orking Memory		256MB			
Built-ir	n Storage Memory	1GB (64MB: Built-in Win CE V6.0 R	3 OS)		
Real-	Time Clock (RTC)		YES			
	Micro SD Slot		YES			
Ę	USB Client	YES (USB 2.0)				
ce	USB Host	YES (USB 1.1)				
Communication Interface	COM1 / COM3	COM1: RS232/RS422/RS485; COM3: RS232 (optional: RS485)				
Int	COM2	A-RS422/485 B-RS232/485 C-RS232 with RTS&CTS				
ŏ	COM4	N/A				
	Ethernet					
Front Function Keys		N/A				
Audi	o Out (optional)	Sub-Model 5: YES				
Vid	eo In (optional)	N/A				
Fron	t USB Host Port	N/A				
Power	Input	24VDC±10% Isolated				
	Consumption		20W			
	Operating Temperature	-20°C~60°C (-25°	C~70°C optional with AL front,	CE certified only)		
	Relative Humidity		10%~90%			
ent	Shock (operation)	10~55Hz (X	X,Y,Z direction, 1G, 30 Mins sh	ock testing)		
u mu	EMI		FCC Part 15 Class A			
Environment	CE		EN61000-6-2, EN61000-6-4			
ŭ	UL Certification		YES			
	Ingress Protection		IP66			
	Cooling		Natural Cooling			
Dimen	sion WxHxD (mm)	280.3 x 222.3 x 45.0	241.6 x 184.6 x 46.0	213.6 x 158.6 x 40.5		
Cutout D)imension AxB (mm)	259.5 x 201.5	221.0 x 164.0	192.0 x 138.5		
Ne	et Weight (kg)	1.25	1.1	0.8		
		ce f© (



Specification of GX-Series



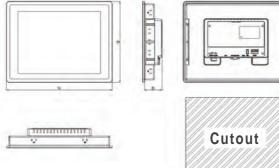




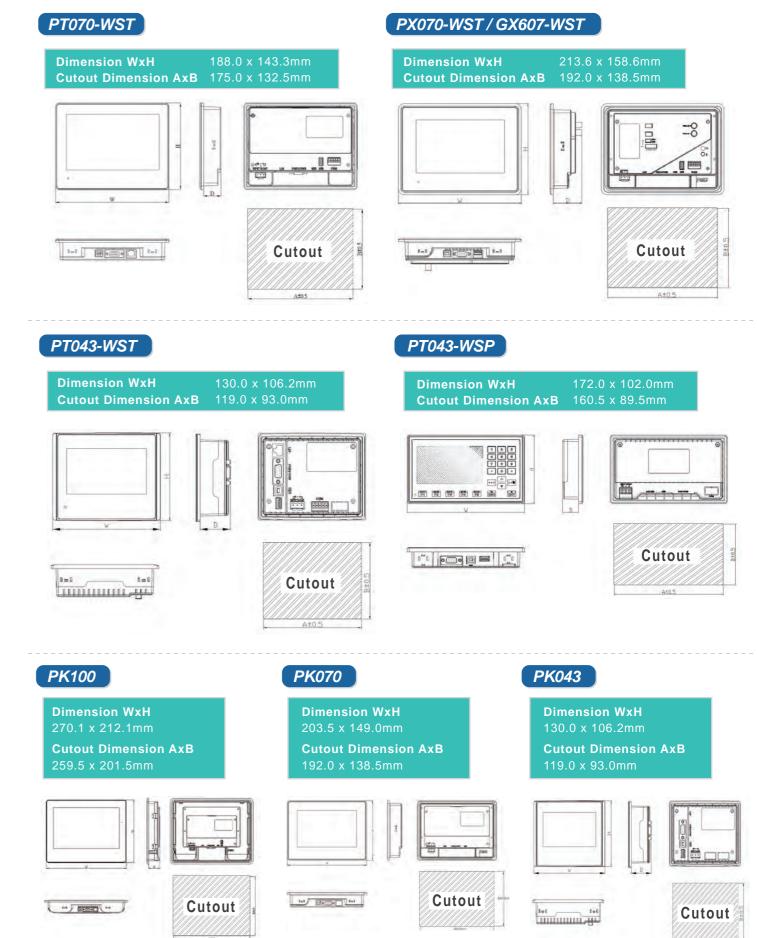
PT150-XSD / PX150-XSD / GX615-XSD	PX121-X
Dimension WxH 399.1 x 297.6mm Cutout Dimension AxB 384.5 x 283.0mm	Dimensio Cutout Di
Cutout	
405	

(SD/GX612-XSD

n WxH mension AxB 301.5 x 228.0mm



PX104-TST/GX610-TST/GX611-WST

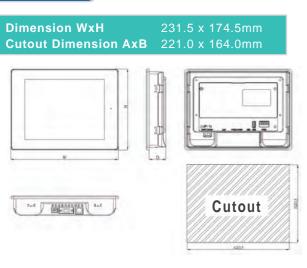


PT104-TST/PT100-WST

Dimension WxH Cutout Dimension AxB	270.1 x 212.1mm 259.5 x 201.5mm
	Cutout

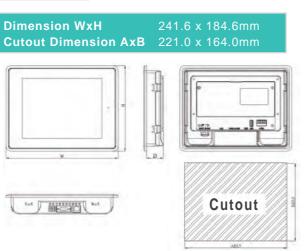
Dimension WxH Cutout Dimension AxB 259.5 x 201.5mm Cutout

PT080-TST



259.5±0.5mm

GX608-TST





Communication Port (COM) Applicable PLC Controllers

Brand	Model
ABIDO Automation Co., Ltd.	AD-4401 Weighing Indicator
	ACR420 984 Device/Slave (RTU) MS/AP/AS Series Inverter (RTU)
Adlee Powertronic Co. Ltd.	BL/D305 Series (RTU)
Advantech	Null PLC ADAM (Modbus RTU)
Advancen	ADAM-4000 (ASCII)
AIGO Technologies Corporation	SE500 Series (Modbus RTU) Micrologix 1000/1500
	SLC 5/03, 5/04
Allen Bradley	DH-485 (COM) PLC-5
	SLC 5/03, 5/04 (CRC)
ARICO Technology	CompactLogix/ControlLogix Tag FC Type(Modbus)
ARICO Technology	Modbus Master (RTU)
Astraada HMI	Modbus Device/Slave (RTU) Modicon Device/Slave (RTU, Quantum)
	Modbus Master (RTU; Non-volatile slave data
Automation Technology Co., Ltd.	BLDC NLV/KLV Series
Banner Engineering Int'l Inc. CAPAC	BSP01 Series TC
CHINO Corporation	DB1000 Digital Indicating Controller (ASCII)
	NF0 Controllers FCT Controllers
CMZ Sistemi Elettronici	SD Drivers
	SDS Drivers MDM Drivers
CTB Technologies Corporation	IMS Servo Controller
Danfoss Group	VLT 2800 Series (FC Protocol) Modbus RTU (COM port)
DEIF A/S	WSS/WSS-L
	DVP-ES/SS/EP/EH DVP-ES/SS/EP/EH (No block read)
	DVP-ES/SS/EF/EH (NO block read) DVP-SV(RTU)
	VFD-M Inverter (ASCII)
Delta Corporation	VFD-B Inverter (ASCII) DTC1000/2000 Temperature (ASCII)
	DTA Temperature (ASCII)
	ASDA-A Servo Controller (ASCII) ASDA-B Servo Controller (ASCII)
	ASDA-A2 Servo Controller (ASCII)
Dirise Electric Technology Co.,Ltd.	DRS2000 Series Inverter DRS2800 M Series Inverter
Emerson Network Power	EC Series (RTU)
Epson Corporate	EV1000 Series Variable Speed Driver Epson LQ Matrix Printer
	Eura EF1S/1N
Eura Drivers Electric Corp.	Eura EF2N Eura Inverter (Modbus RTU)
	Eura Inverter (Modbus ASCII)
Fatek Automation Corp. Festo Corporation	FATEK FBs/FBe FPC/FEC Series
	NB Series
Fuji Electric Corporation	PXR Series Temperature (RTU) FRENIC-VP (RTU)
	FRENIC5000G11/P11 (Fuji)
FVK Automation Co., Ltd.	FRENIC-Mini/Eco/Multi/Mega(RTU) F Series Inverter
	90 Series SNP
GE Corporation	VersaMax Series (SNP) 90 and RX3i Series (SNP)
	90 Series CCM
Gigarise Technology Co., Ltd.	SE5000 GA400 Temperature (RTU)
GOFAST Corporation	NC Series
Haiwell Technology Co., Ltd Hanbell Precise Machinery Co., Ltd.	HW Series (RTU) Air Screw Compressor
	SJ200 Inverter
Hitachi Industrial Equipment	H/EH Series EHV Series (Procedure 1)
Systems Co., Ltd	H-252C
	AD Series Servo Drives Computer as Slave (COM)
Hitech	Computer as Slave (COM) Computer as Master (COM)
	Computer as Slave V2 (COM)
Holip Electronic Technology Co.,Ltd.	Computer as Master V2 (COM) HLP-C+/CP

Brand	Model
	BACnet/MSTP
vell	BACnet
	Modbus Device/Slave (RTU, 255)
n Electronic Co., Ltd.	Modbus Device/Slave (RTU, 255, NoBlock) H_Tech PID CONTROLLER
	Sinus Penta Inverter (RTU)
	H2u (CPU Port)
ce Control Technology Co., Ltd.	MD Series Inverter (RTU-1)
	IS Servo (RTU) iPurge Source Controller
R	NANO Series
π	JetControl 24x Series
	KV Series KV-1000
	KV-L20V,KV-NANO
	KV-L20
	KV-3000 PS4-201-MM1
er Moeller Corporation	SUCONET K
	K Sequence Series
lectric Corp.	Direct Logic Series
	Direct 06 Series (K Sequence) Direct 06 Series (DirectNET)
Drive Systems GmbH	93xx Servo Controllers (LECOM A/B)
	Master-K Series CNet
	K120S CPU Port
	Master-K Loader GLOFA GM Series CNet
	XBM-DR16S
	GLOFA GM Loader
	XEC/XGI CNet
	XGT/XGK (CPU) XGL-C22A
	LGA Series(as Slave)
tem	LGA Series (as Master)
	EX Series (CPU Port)
triebstechnik GmbH	LustBus ServoC/CDE Series LustBus CDD Series
	FP Series Computer Link
	VF0C Series Inverter
h	VF100 Series Inverter MC2 PID Controller
rmo	MC 5738 (RTU)
Vell Enterprises Co., Ltd.	PRETA
et rend Corporation	MC Series (RTU) UTC Servo Controller
utomation Corporation	nDX Controller
	Melsec-FX (CPU Port)
	Melsec-Q/QnA (Link Port)
	Melsec-Q00/01 (CPU Port) Melsec-Q02H (CPU Port)
	Melsec-Q02 (CPU Port)
	Melsec-Q02U (CPU Port)
	Melsec-Q00J (CPU Port) Melsec-FX2n (CPU Port)
	Melsec-FX20 (CPU Port) Melsec-FX3U (CPU Port)
	Melsec-FX3U (Link Port)
	Melsec-AnN/AnS (Link Port)
	Melsec-AnN/AnS Protocol 4 FX2n-10GM/20GM
shi Electric Corp	Melsec-A1S/A2S (CPU Port)
shi Electric Corp.	FR-E500 Series (485)
	Melsec-A3N/A1SH (CPU Port) Melsec-AnA/AnU (Link Port)
	Melsec-AnA/AnU (Link Port) Melsec-AnA/AnU Protocol 4
	Servo Amplifier MR-J2S-A
	Servo Amplifier MR-J3-A
	Servo Amplifier MR-J4-A Melsec-A2A/A2AS (CPU Port)
	Melsec-Q06H (CPU Port)
	Melsec-Q12H (CPU Port)
	Melsec-Q03U (CPU Port)
	Melsec-Q00U (CPU Port) GOT-F900 Emulator (1:1 Format 1 & 2)
	Melsec-Q01U (CPU Port)
	EV Linear Gage Counter (ASCII)
n Corp.	Modicon 984 Master (RTU)
	Modicon 984 Master (RTU; Little Memory)

Lust A Matsu Maxte Maxth Mean Megm

Brand	Model
	Modicon 984 Device/Slave (RTU)
	Modbus Master (ASCII)
	Modbus Master (ASCII; Little Memory)
	Modbus Device/Slave (ASCII)
	Modicon Device/Slave (RTU, Quantum)
	TSX Premium (Uni-Telway)
	TSX Quantum (Uni-Telway) Twido (Modbus RTU)
	Modbus Master (RTU; Non-volatile slave data
	Modbus Master (ASCII; Non-volatile slave data
	PSTC (Temperature Controller)
	PSBD (Bushless Driver)
Newtop Co., Ltd.	PSSD (Stepping Driver)
	PSMC (Motion Controller)
	PSNC (Embedded NC)
	Sysmac C Series Host Link
	Sysmac CV Series Host Link
	Sysmac CS/CJ Series Host Link
	Sysmac CS/CJ Series (FINS)
Omron Corporation	Sysmac CP Series (FINS)
Omron Corporation	E5CN Temperature (CompoWay/F)
	E5CN Temperature (Modbus RTU)
	EJ1 Temperature (CompoWay/F)
	KM100 (CompoWay/F)
	3G3MV Inverter (RTU)
	E9 Temperature Series
Pan-Globe Corp.	E904 Temperature (RTU)
	HT Series Temperature Controller FP Series
	MINAS A4 Series
	Null PLC
	General Device (COM)
	Data Sharer (RS485)
	Modbus Master (RTU)
	Modbus Master (RTU; Little Memory)
	Modbus Master (RTU; Non-volatile slave da
	Modbus Device/Slave (RTU)
PanelMaster	Modbus Device/Slave (RTU, 16Words)
Fallelinaster	Modbus Device/Slave (Word order in big-endial
	Modbus Device/Slave (RTU; No block rea
	Modbus Device/Slave (RTU, 30Words)
	Modbus Device/Slave (ASCII)
	Modbus Device/Slave (ASCII; No block rea
	Barcode Scanner
	Epson Matrix Printer
	PC Series PLC Module
Parker Hannifin	
	Compax3
	Compax3 EI-500 Series (RTU)
RICH Electric Co., LTD.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU)
	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU)
RICH Electric Co., LTD.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII)
RICH Electric Co., LTD.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode)
RICH Electric Co., LTD. RKC Instrument Inc.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; Network)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (MPI Port) Simatic S7-300 (MPI Port) Simatic S7-300 (PC Adaptor)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; Network) Simatic S7-300 (PC Adaptor) Simatic S3 3964R
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; Network) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5 TP03 Series (Modbus RTU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (PC Adaptor) Simatic S5 TP03 Series (Modbus RTU) TP02 Series
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5 TPO3 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series (RTU) NOVA Series (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus, Data Mode) NOVA Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER TSDA Series AC Servo
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG Taian Automation Co.,Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series (RTU) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (PC Adaptor) Simatic S5 3964R Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER TSDA Series (Modbus RTU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series (RTU) NOVA Series (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-te-1) Simatic S7-200 (PPI; 1-te-1) Simatic S7-200 (PPI; Network) Simatic S7-300 (PC Adaptor) Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER TSDA Series (Modbus RTU) TP02 Series (Modbus RTU) TP02 Series (Modbus RTU) TP02 Series (Modbus RTU)
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG Taian Automation Co.,Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series ATV31 Inverter (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-to-1) Simatic S7-200 (PPI; 1-to-1) Simatic S7-300 (MPI Port) Simatic S5 3964R Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER TSDA Series AC Servo TP03 Series (Modbus RTU) TP02 Series TSTA Series AC Servo
RICH Electric Co., LTD. RKC Instrument Inc. Saia Burgess Samwon Technology Schneider Electric Shinko Technos Co., Ltd. Siemens AG Taian Automation Co.,Ltd.	Compax3 EI-500 Series (RTU) EI-9001 Series (RTU) MA900/CB900 Series (RTU) CD/CH Series (ASCII) PCD Series (S-Bus PGU) PCD Series (S-Bus, Data Mode) NOVA Series (RTU) NOVA Series (RTU) NOVA Series (RTU) Lexium 23 Servo Controller (ASCII) CPT-20A MODBUS DEVICE/SLAVE (ASCI JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Shinko Protocol) JCS-33A-R/M (Modbus ASCII) Simatic S7-200 (PPI; 1-tevork) Simatic S7-200 (PPI; 1-tevork) Simatic S7-300 (PC Adaptor) Simatic S5 TP03 Series (Modbus RTU) TP02 Series TAIE FY100/900 Series (RTU) TAIE FY100/900 Series (TAIE) FY series DIGITAL PID CONTROLLER TSDA Series (Modbus RTU) TP02 Series (Modbus RTU)

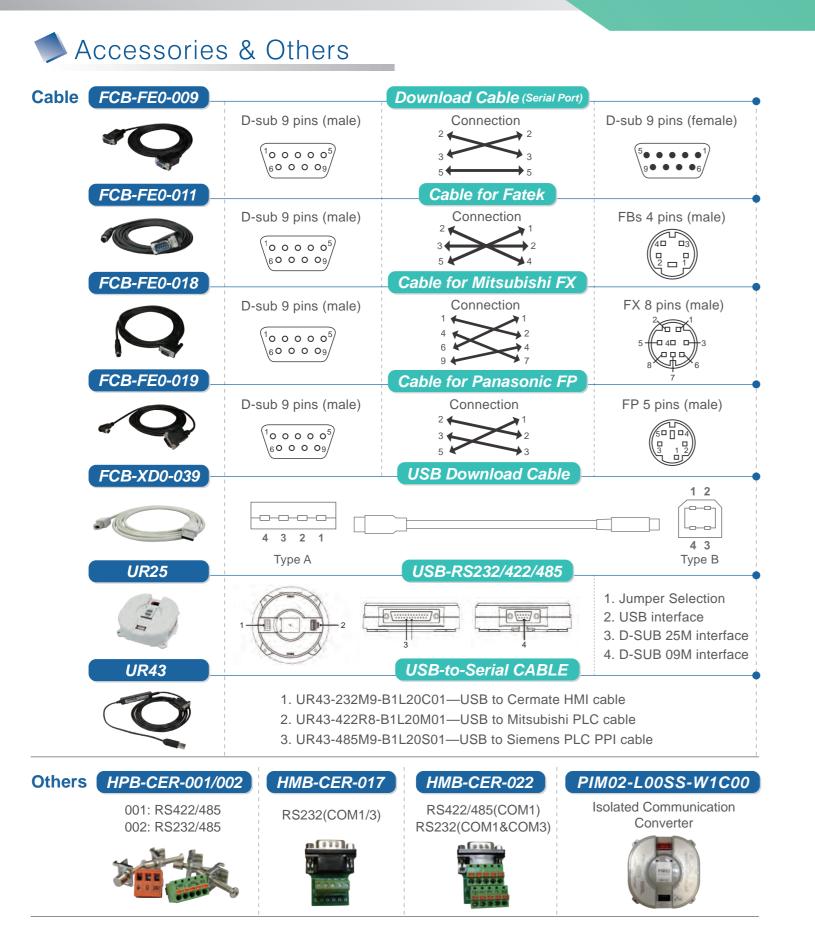
Brand	Model
Tokyo Keiso	UCM-04A
Vigor Corporation	M/VB Series
	SDC35/36 Temperature (RTU)
	SDC35/36 Temperature (ASCII)
	MA500 FA Controller (ECL Host)
	DMC10 Controller (RTU)
	DMC10 Controller (ASCII)
Yamatake Corporation	MX30
	MX50
	Σ- II SGDM/H Series AC Servo
	MP Series Controller (Memobus)
	V7 inverter (Memobus)
	NS600 Servo Controller
Ye Li Electric Machinery Co., Ltd.	YPV Servo Controller
	YJD Servo Controller
Yokogawa Electric Corporation	FA-M3 Series (CPU Port)
	AI-7048 (AiBus)
Yudian Automation Technology Ltd.	AI518/ 708/ 808/ 518P/ 708P/ 808P Controller (Albus)
Zhuhai Motion Control Motor Co., Ltd.	BP Series PSDA driver (RTU)

Communication Port (Ethernet)

Brand	Model
	BACnet/IP
	BAS BACnet/IP
Advantech	ADAM-4000 (ASCII)
	ADAM-6000 (ModBus TCP/IP)
	MicroLogix 1000/1500 via 1761-NET-ENI
	MicroLogix
	CompactLogix/ControlLogix Ethernet/IP Tag
	ModBus Master (TCP/IP)
A - 1	ModBus Device/Slave (TCP/IP)
Astraada HMI	ModBus Master (TCP/IP; Type 2)
	ModBus Device/Slave (TCP/IP; Type 2)
	FCT Controllers(TCP/IP; Type 2)
DEIF A/S	TCP/IP Modbus (Ethernet port)
	EasyIO-30 (RTU)
Fatek Automation Corp.	Fatek FBs/FBe (TCP)
GE Corporation	SRTP Ethernet
	SRTP Ethernet (Micro)
Hitachi Industrial Equipment	EH/EHV Series (Ethernet; TCP)
Systems Co., Ltd	EH/EHV Series (Ethernet; UDP)
Honeywell JETTER	BACnet/IP
JEITER Keyence Corp.	JetControl 24x Series (Ethernet) KV-5000
Lenze Drive Systems GmbH	E94AYCEN GCI(TCP/IP) Protocol
	Fama SoftPLC Ethernet
	ModBus Device/Slave (TCP/IP)
	Q Ethernet
	Q/L Ethernet (ASCII Mode)
Mitsubishi Electric Corp.	L Ethernet (Binary Mode)
	Melsec-FX3U (MC-Protocol)
	ModBus Master (TCP/IP)
	ModBus Device/Slave (TCP/IP)
	ModBus Master (TCP/IP; Type 2)
	ModBus Device/Slave (TCP/IP; Type 2)
Omron Corporation	Sysmac CS/CJ Series FINS/TCP
	FP Series Computer Link
	Data Sharer (UDP)
PanelMaster	Ping
	Modbus Device/Slave (TCP/IP)
PORIS	Internal Memory XC ModBus TCP
Saia Burgess	PCD Series (Ether-S-Bus)
	Simatic S7-300 Ethernet Module (CP343)
	SIMATIC S7 (Ethernet)
	SIMATIC S7-200 SMART (Ethernet)
ТРМ	EPC-1000
	N-to-1 Master (Ethernet)
	N-to-1 Slave (Ethernet)
WAGO Kontakttechnik GmbH & Co. KG	WAGO-I/O-SYSTEM 750
	ModBus Device/Slave (TCP/IP) Extended MEMOBUS
Yokogawa Electric Corporation	FA-M3 Series (UDP)
	FA-M3 Series (TCP)

Note: * The brand names are listed in alphabetical order.

* This driver list will be updated at any time, please contact us for the latest information.



P2M-WD0-406 (Suitable for 3.5" / 4.3" / 5.6" / 5.8")

P2M-ET0-023 (Suitable for 10.1" / 10.4" / 12.1")

P2M-ET0-022 (Suitable for 7.0" / 8.0")

P2M-ET0-024 (Suitable for 15")

PANELEXPRESS Designed for Convenience

PanelExpress is a Windows based HMI runtime. It enables you to utilize the resources of a PC, such as computation power, multimedia, and bigger screen, to realize a high-end sophisticated HMI. Its configuration software, PM Designer, is also the development tool for K/T/X-Series RTOS based HMI products. Thanks to the cross platform flexibility offered by PM Designer, switching hardware for performance becomes an easy job.



General Features

- · Cost effective Windows based HMI runtime
- Supports 16 communication links for different application
- No limitation on the internal I/O points used in an application
- Supports over 380 PLC communication protocols
- · Supports data collection, alarm monitoring, recipe handling and history of operation logging
- · Provides a complete set of useful native script commands. Script programs can be embedded in objects, screens and the global process

Advanced Features

- Number of communication links can be up to 248
- Monitors up to 64 discrete alarm blocks and 64 analog alarm blocks. Up to 65535 alarms can be defined
- · Supports Access, My SQL and SQL databases for your application data
- Provides customization tool for report generation

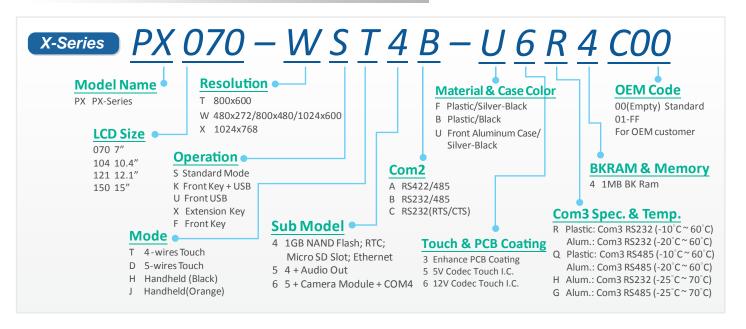
27

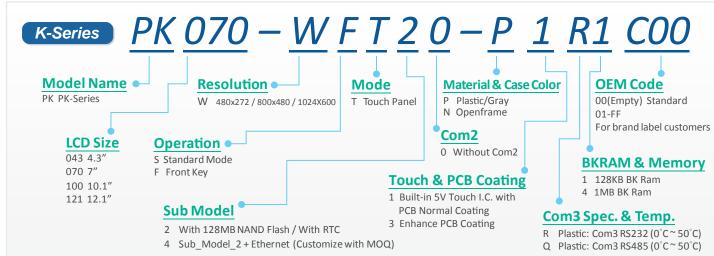
Screen Protector

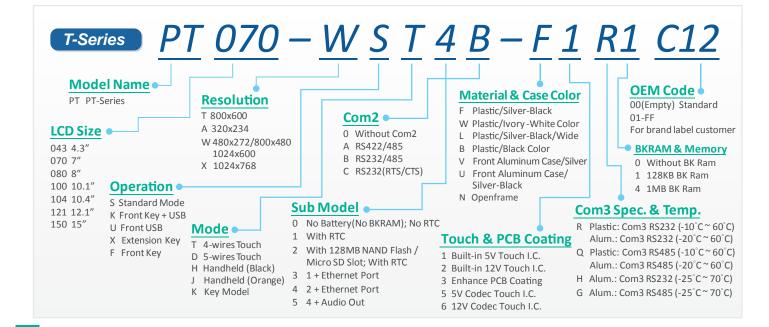


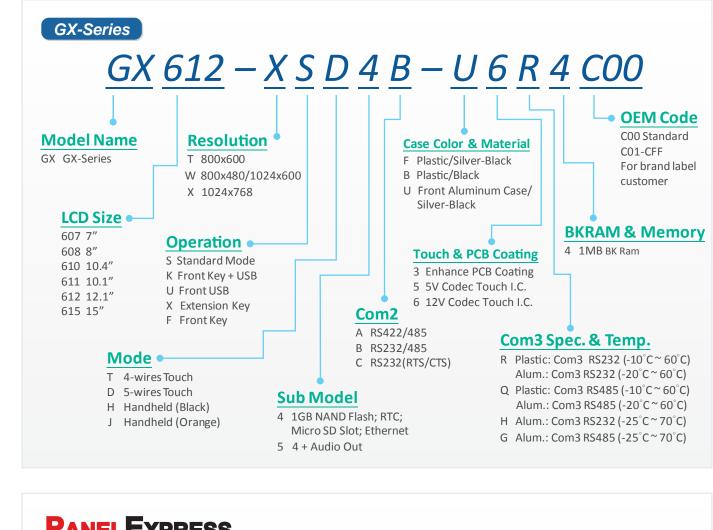
• Over 50 of screen objects can fulfill all types of HMI operating and viewing needs for machine automation

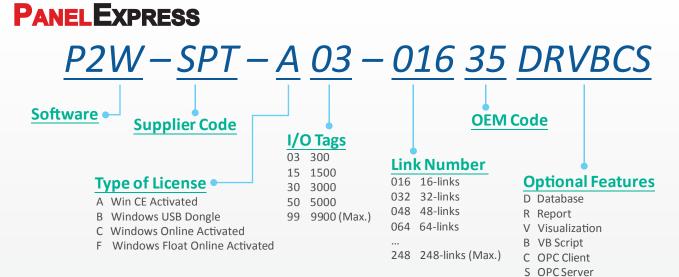








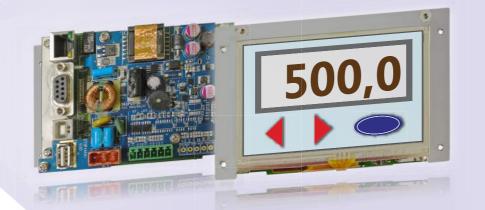




Cermate

PT043-WST for N1R1 Series

Openframe HMI Panels

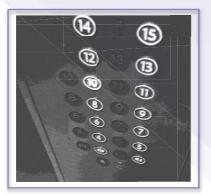


BACK

►► Application Industry



Lab Equipments



Elevator Buttons System



FRONT

Power Management System

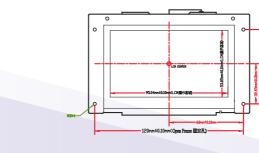
►► Installation: Can be installed from both side

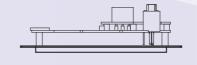


Fasten screws from front side



Fasten screws from back side





Model Name		PT043-WSTN1R1	
Sub-Models		1 / 4	
Size		4.3"	
Display	Max. Resolution	480*272	
	Туре	TFT LCD with LED Backlight	
	Max. Colors	16-bit	
	Backlight Life	20000hrs	
	Display Contrast	500:1	
	Luminance	400 cd/m2	
Touch Panel		4-wire Analog Resistive Type	
	CPU	RISC ARM9 32Bit	
Backup SRAM		128KB (optional:1MB)	
Wc	orking Memory	32MB	
NAI	DA Flash ROM	Sub-Model 1: 8MB Sub-Model 4: 8MB+128MB(NAND Flash)	
Real-Time Clock (RTC)		YES	
Micro SD Slot	Micro SD Slot	Sub-Model 4: YES	
u	USB Client	YES (USB 2.0)	
ce	USB Host	YES (USB 1.1)	
nmunicati Interface	COM1 / COM3	COM1: RS232/422/485, COM3: RS232 (optional:RS485)	
Communication Interface	COM2	A-RS422/485 B-RS232/485	
ŏ	COM4	N/A	
	Ethernet	Sub-Model 4: YES	
Front Function Keys		N/A	
Audi	io Out (optional)	N/A	
Vide	eo In (optional)	N/A	
Fron	t USB Host Port	N/A	
Dowor	Input Voltage	24VDC±10% Isolated	
Power	Consumption	10W	
	Operating Temperature	-10°C~60°C	
nent	Relative Humidity	10%~90%	
ronr	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)	
Environment	Certification	N/A	
	Cooling	Natural Cooling	
LCD View Area		95.04 x 53.85 mm	
Net Weight		0.2 kg	

Cermate www.cermate.com

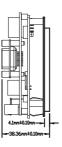
Taiwan Cermate Technologies Inc. TEL: (+886)-2-22437000 E-mail: service@cermate.com

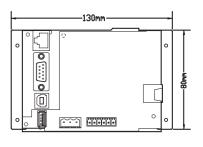
China, Shanghai TEL: (+86)-21-51758590~2 E-mail: sales@panelmaster.com.cn

China, Shenzhen Cermate Technologies (Shanghai) Inc. Cermate Technologies (Shenzhen) Inc. TEL: (+86)-755-83562179 E-mail: sales@cermate.com

A professional HMI solution provider

www.cermate.com Please verify specifications before quoting. This guide is intended for reference purposes only. All product specifications are subject to change without notice. No part of this publication may be reproduced in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission of the publisher. All brand and product names are trademarks or registered trademarks of their respective companies. © Cermate Technologies Inc. 2015





*Please download documents from our website for more detail information.

Cermate

PT070-WST for N1R1 Series

Openframe HMI Panels



►► Application Industry



Textiles Mills Machinery



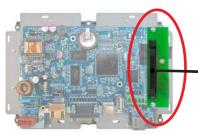
Laser Process Machinery



Food and Beverage Industry

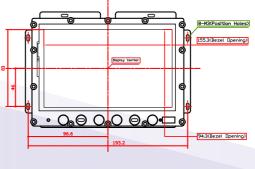
Extension for 48 keys & 8 function keys at most
Extension for 7 LEDs at most

Extension Module : Can connect with keyboard or other devices





Install with extension keyboard connector





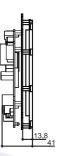
Model Name		PT070-WSTN1R1	
Sub-Models		2 / 4	
Size		7"	
Display	Max. Resolution	800*480	
	Туре	TFT LCD with LED Backlight	
	Max. Colors	16-bit	
	Backlight Life	20000hrs	
	Display Contrast	500:1	
	Luminance	300 cd/m2	
Touch Panel		4-wire Analog Resistive Type	
CPU		RISC ARM9 32Bit	
В	ackup SRAM	128KB (optional:1MB)	
Wo	orking Memory	64MB	
NA	DA Flash ROM	8MB+128MB(NAND Flash)	
Real-Time Clock (RTC)		YES	
USB C a Ce tion H BSU a Ce	Micro SD Slot	YES	
	USB Client	YES (USB 2.0)	
	USB Host	YES (USB 1.1)	
	COM1 / COM3	COM1: RS232/422/485, COM3: RS232 (optional:RS485)	
- Int	COM2	A-RS422/485 B-RS232/485	
ŏ	COM4	N/A	
	Ethernet	Sub-Model 4: YES	
Front Function Keys		N/A	
Audio Out (optional)		N/A	
Vid	eo In (optional)	N/A	
Fron	t USB Host Port	N/A	
Power	Input Voltage	24VDC±10% Isolated	
Power	Consumption	20W	
	Operating Temperature	-10°C~60°C	
Environment	Relative Humidity	10%~90%	
ronr	Shock (operation)	10 ~ 55Hz(X,Y,Z direction, 1G, 30 Mins shock testing)	
invi	Certification	N/A	
ш	Cooling	Natural Cooling	
Cutout Dimension		188.7 x 133.8 mm	
Net Weight		0.6 kg	

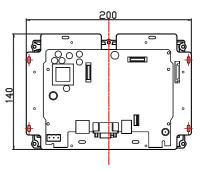
Cermate A professional HMI solution provider www.cermate.com
Please verify specifications before quoting. This guide is intended for reference purposes only.
All product specifications are subject to change without notice.
No part of this publication may be reproduced in any form or by any means, electronic, photocopying, recording or otherwise, without prior written permission of the publisher.
All brand and product names are trademarks or registered trademarks of their respective companies.
© Cermate Technologies Inc. 2015



China, Shanghai Cermate Technologies (Shanghai) Inc. TEL: (+86)-21-51758590~2 E-mail: sales@panelmaster.com.cn

China, Shenzhen Cermate Technologies (Shenzhen) Inc. TEL: (+86)-755-83562179 E-mail: sales@cermate.com





*Please download documents from our website for more detail information.

MSA-R40-E00-C0602-V0100



SCADA

Server

Solution

S-BOX

PWR0 04 05

COM01 02 03

V.A

D

0. 0 0 Pet

TATUS I

S-BOX

PWR 1 02

RUN . .

STATUS 1 2

COM •1 •2 •3

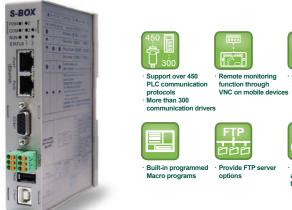
Selap Moze Tifte:

Boox Loader Thine:

Resource France

S-Box **Industrial Data Gateway**

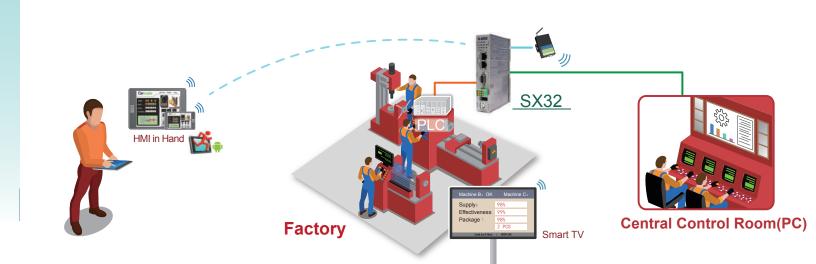
SX32



Specification

CPU & Memory		
 CPU Working Memory Build-in Storage Memory Battery Backup SRAM RTC 	RISC ARM9 32Bit 64MB 8MB 128KB YES	
Communications Ports		
Serial Com Ports	COM1: RS232/422/485 (DB9 Female, Pin 1/2/3/4/5/6/9) COM2: RS232/485 (3-Pin Terminal, adjust by DIP-Switch) COM3: RS485 (DB9 Female, Pin 5/7/8)	
USB HostUSB ClientEthernet	RS232 (3-Pin Terminal) USB 1.1 USB 2.0 YES(IEEE 802.3, IEEE 802.3u)	

N/A - SD Slot Software RTOS(Real-time O.S.) OS Support Software Version PM Designer v2.1.7.00 or higher Watchdog Timer Reboot Trigger







Provide dyna and static scl



Collecting da instantly Intelligence data analysis



PLC transparent connection from Serial and Ethern



notificat E-Mail





12-30V Is power supply Isolated and pro







APP Rei



Built-in daul pow input with backup po The relay output for power fail

Power Supply

- Input Voltage
- Power Consumption
- Connector
- Isolation
- Relay Output Current Carry Capacity

12-30 VDC (External) 5W 6Pin-Terminal Blocks YES

Environment

- Operating Temperature
- Storage Temperature
- Humidity
- Shock(operation)

10%~90% 10 ~ 55Hz(X,Y,Z direction, 1G, 30 minutes shock test)

Others

- LED Indicators
- Enclosure
- Dimensions(WxHxD)
- Weight
- Mounting
- Certifications

PWR1/PWR2/COM1/COM2/COM3/ RUN/STATUS1/STATUS2 Metal 29 x 150.4 x 98.6 mm

0.4 Kg DIN-Rail Mounting/Panel Mounting CE / FCC

1A@24 VDC

-20°C~70°C

-25°C~75°C