

SIEMENS



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with
TIA Portal

SIMATIC S7-1200

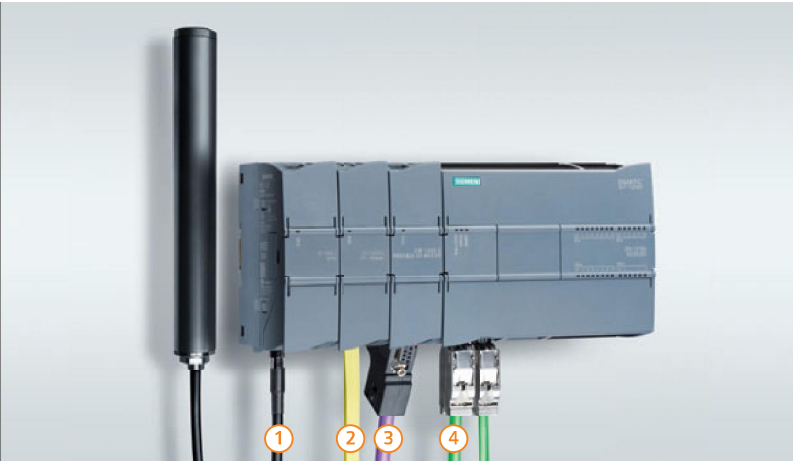
It's the interplay that makes the difference

siemens.com/s7-1200



บริษัท เจพีโปรเกรส เอ็นจิเนียริ่ง จำกัด
JP PROGRESS ENGINEERING CO.,LTD.

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Innovations – with firmware V2.0 & V3.0

SIMATIC S7-1200 (V2.0)

① GPRS

- Machine-to-machine control schemes over cellular network
- Easy implementation of remote machine data acquisition
- Fault annunciation via SMS

Teleservice

- Centralized, remote configuration, programming and diagnostics
- Remote process code updates
- Modem, RS-232, ISDN, GSM, GPRS, and Ethernet available

Telecontrol

- Easy remote monitoring and control through GPRS architecture
- Monitoring and control for up to 5,000 stations
- Local buffering of data

② AS-i Master

- Master acc. to AS-i Spec. 3.0
- Up to 62 AS-i Slaves or 992 I/Os
- AS-i Power24V-capable (separate DCM)

③ PROFIBUS Master and Slave

- DP Master for Distributed I/O and Drives architectures
- DP Slave for integration into existing plant network

④ PROFINET

- Higher Level System interface
- RT Master for I/O and Drives
- No module required

Webserver

- Display of process values and diagnostics on standard web page
- User-defined web page via HTML
- Only requires IP address

Datalogging

- User-defined runtime data values as CSV file in continuous logs
- Easy export via web page

PID controller

- 3-Step instructions for valve's or actuator's positioning

SIMATIC S7-1200 (V3.0)

S7-1215C; 3 Types: DC/DC/DC; AC/DC/RLY; DC/DC/RLY – 130 mm Width

- 2 PN Ports – for two connections to HMI, IO or programming
- Battery Board – one year internal clock time with V3 CPUs
- 100 KB working memory – larger program process area
- 4 MB load memory – larger data storage area
- 55 ns bit performance
- Firmware update via PN port with V3 CPUs
- 2 AI/2 AO – integrated on CPU
- 6 HSC (High-speed counters) – 3 at 100 kHz and 3 at 30 kHz clock rate
- 4 PTO/PWMs – 100 kHz onboard outputs or 200 kHz with signal board
- Extended internal clock retention time – upwards of 20 days typical
- Extended CPU temp rating – for hotter and colder applications



WECON HMI&PLC PRODUCTS CATALOG

WECON HMI&PLC
PRODUCTS CATALOG

LEVI8108

[HMI PRODUCTS]

【NEW HMI SYSTEM】----High calculate speed ----Large memory system
----Advanced application field



Features

- 720MHz: High calculate speed
- 512MB : Large memory HMI system
- >=128MB: Flash Storage system
- Support WINCE7.0, LINUX, ANDRIOD .etc OS

YYLY

Intelligence live application:used in hotels,villa,automatic control, support WINCE and LINUX OS,high-end hardware platform can support rich software applications.

Industrial PAC computer:according to LEVI8108, support the configuration software,can adapt all kinds of complex industrial environment like strong acid, strong alkali, humidity, high dust etc.

Large production line:through the Ethernet or wireless Ethernet communicate performance, combined with our company developed the centralized monitoring system, support centralized monitoring, data centralized processing.

Hardware

Display Capabilities:		External Interface:	
Size	10.2 inch	COM1	RS232, RS485/RS422
Color	65536 colors	COM2	RS232, RS485
Resolution	800*480	COM3	RS485
Display size	222.72(w) x 125.28(d)mm	USB HOST	Standard (High-Speed, Full-Speed)
Intensity	though LEVI to control	USB DEVICE	Standard (High-Speed, Full-Speed)
Specifications:		Ethernet	10Mbps/100Mbps/1000Mbps selfadapt
CPU	cortex A8 max720Mhz	CAN	Isolate CAN interface
DDR	DDR3 512MB	Ex-Memory	Standard SD-card
Memory	SLC FLASH 256MB	Audio	Mic,Stereo,built-in speaker(optional)
Power	<10W	EEPROM:	max256kbit (optional)



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WECON PLC——Reliable,Simple,Economical,Multifunctional, Professional PLC on sale!



起点就是不一样

Multifunction

- 256K ROM, 16K EEPROM.
- USER LAD 16K step.
- 2-path 100K,4-path 10K,Total Pulse 200Khz.
- Highspeed than Peer PLC: LD:0.1 us, MOV: 1.5us.
- Two COM Port: RS422/RS485(optional).
- CANOPEN Analog Extension Module.
- Can choose Transistor or Telay.

Relible,at ease

- Use mature SoC Scheme, Relible Scheme is the base of quality.
- Adopt High quality parts and quality control procedures,Make high-quality HMI.
- Simple inner Struture,Wiring convenient and reliable.

Simple,easily use

- Relay symbols method + SFC,Support interrupt mode.
- Compatible with other PLC programming software, LAD program can be used directly.
- Wiring convenient, Simple operation.
- Support online Simulation test.

Economic,comete

- Research and development HMI successful experience and mature channel let we have lower cost.
- Provide independent brand of HMI + PLC full solutions,More competitive.
- Good pre-sale service can Save more time.

Service,safer

- Customise Special control equipment and solutions.
- Professional service team,timely service reduce the cost.
- Free offer mature solution in all kinds of industry , improve the pre-sale efficiency.

PLC Function

MAX 200K HSPPO

Two independent path,the max HSPPO is 200k
Support PWM and Trapezoid acceleration and deceleration



Rich Component

- Timer: 64-point
- Auxiliary Relay: 512-point
- Counter: 53-point
- Data register: 256-point
- Status Register: 128-point

RTC(Real-time Clock)

- Support RTC,keep more than 3 years when power-off

Support MODBUS

- Support MODBUS RTU MASTER/SLAVE
- Can communicate with inverter



Rich extended function

- Support extended IO&Analog quantity module
- Support extended Communit&Temp module
- Support extended module max8(except IO)



High-speed Counting

- Hardware counting: 2-path Max200KHz, 1-path AB phase
- Software counting: 2-path 100K, 4-path 10K, Total pulse 200KHz
- Support 2-path AB phase

Interrupt Function

Outer,Timer,Counter Interrupter
Can make special operate when interrupter

- X0-X5 6path input can use as Outer Interrupter
- 3 indie Timer interrupt
- 6 indie Counter interrupt

Programming Ability

- Rich PLC instruction,compatible with brand PLC
- Support off-line simulation, online simulation test
- Support program encryption,protect intellectual rights

High-speed Operating

- Basic instruction: 0.1us/ins
- Apply instruction: 1us/ins

BD Board Products List

BD Board	Description
LX3V-2ADDA-BD	2 channels analog input (4~20mA), 2 channel analog output(4~20mA)
LX3V-2PTDA-BD	2 channels thermal resistance input, 2 channel analog output(4~20mA)
LX3V-2TCDA-BD	2 channels thermocouple input, 2 channel analog output(4~20mA)
LX3V-2AD-BD	2 channels analog input (4~20mA)
LX3V-2DA-BD	2 channels analog output (4~20mA)
LX3V-2PT-BD	2 channels thermocouple input
LX3V-2TC-BD	2 channels thermal resistance input
LX3V-485-2BD	Extended COM port (RS485)
LX3V-CAN-BD	Extended CAN function
LX3V-ETH-BD	Extended Ethernet port

PLC Expansion Module Products List

Module	Description	Module	Description
LX3V-8EX	8 input terminals (X)	LX3V-4AD	4 channels analog input
LX3V-8EYR	8 relay output terminals(Y)	LX3V-4DA	4 channels analog output
LX3V-8EYT	8 transistor output terminals(Y)	LX3V-2AD	2 channels analog input
LX3V-16EX	16 input terminals (X)	LX3V-2DA	2 channels analog output
LX3V-16EYR	16 relay output terminals(Y)	LX3V-4PT	4 channels thermocouple input
LX3V-16EYT	16 transistor output terminals(Y)	LX3V-4TC	4 channels thermal resistance input
LX3V-1WT	1 channel weighing signal input	LX3V-2PT	2 channels thermocouple input
LX3V-2WT	2 channels weighing signal	LX3V-2TC	2 channels thermal resistance input
LX3V-1PG	1 channel high speed pulse output	LX3V-1PSU	Extended power supply module
LX3V-4LC	4 channel temperature control	-	-

PLC Specification

Item	LX1S Series PLC	LX3V Series PLC
Run Mode	Scan round / Interrupt	
Programming	Instruction List / Ladder	
Total Instructions	Basic instructions: 27	
	Applied instruction: 136+2	

PLC Specification

Item	LX1S Series PLC	LX3V Series PLC
Used time	Basic instructions: 0.06us	
	Applied instruction: 1~10us	
Program capacity	2K	16K
X Input terminals(Octal)	16 points, X0~X17	256 points, Y0~Y377
Y: Output terminals(Octal)	14 points (Y0~Y15)	256 points (Y0~Y377)
M: Intermediate register	512 points (M0~Y511) 256 points (M8000~M8255)	3072 points (M0~M3071) 256 points (M8000~M8255)
S: State register	128 points (S0~S127) 10 points (S0~S9) 10 points (S10~S19)	1000 points (S0~S999) 10 points (S10~S19) 100 points (S900~S999)
T: Timer	32 points (T0~T31)	200 points (T0~T199) 6 points (T250~T255, accumulated)
	31 points (T32~T62)	46 points (T200~T245)
	1 points (T62)	4 points (T246~T249, accumulated)
C: Counter	32 points (C0~C31)	200 points (C0~C199)
	-	335 points (C200~C234)
	21 points (C235~C255)	21 points (C235~C255)
D: Data register	256 points (D0~D255) 2000 points (D1000~D2999) 256 points (D8000~D8255)	8000 points (D0~D7999) 256 points (D8000~D8255)
V: Indexed addressing register	8 points (V0~V7)	
Z: Indexed addressing register	8 points (Z0~Z7)	
High speed pulse output	2 channels, 200KHz for each channel (Y1, Y2)	
External interrupt	6 points (X0~X5), rising / falling edge pulse supported	
High speed counter interrupt	6 points	
Timer interrupt	3 points	
Power down save	-	Set by programming software
Storage device	FLASH	
Digital filtering	Provide digital filtering for all X input terminals	
Serial communication	COM1: RS422	COM1: RS422 or RS485
	COM2: RS485(Optional)	COM2: RS485
	-	CAN/Ethernet/RS485 (Optional)
Download / Monitor	Serial programming cable	
	Mini USB cable Serial programming cable	

Input / Output Specification

Item	Relay Type	Transistor Type
Output circuit power supply	Less than AC 250V/ DC30V	DC 5~30V
COM current	—	Less than 0.1mA (DC 30V)
Insulation	Mechanistic	Optical coupling
LED State	When output is ON, then LED ON	
Leak current(open circuit)	—	0.1mA (DC 30V)
Min. load	—	DC 5V / 2mA
Max.load	Resistive	2A/point, 8A/COM port
	Inductive	80VA
	General	100W
ON/OFF response time	About 10 ms	Less than 0.2ms, (HSPO point:5us)

Power Supply Specification

AC Power Supply

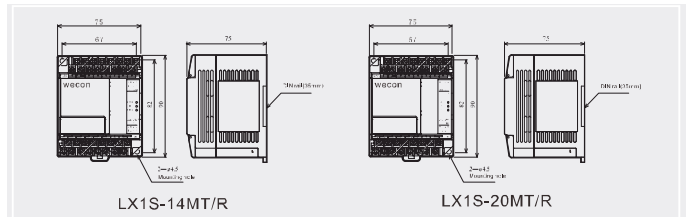
Item	Relay Type	Transistor Type
Rated power	AC 100V~240V	
Voltage range	AC 86V~265V	
Rated frequency	50Hz / 60Hz	
Power outage time	<10ms (continue to work)	
Power fuse	250V / 1A	250V / 3.15A
Rush current	<15A 5ms (AC 100V) <30A 5ms (AC 200V)	
Power consumption	<35W	<60W
Sensor power supply	DC 24V 850mA	DC24V 700mA

DC Power Supply

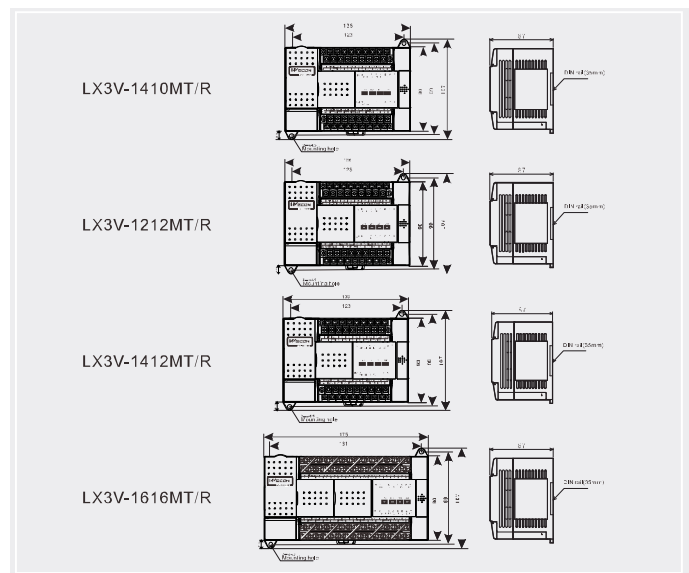
Item	LX3V series PLC
Rated power	DC 24V
Voltage range	DC 24V±10%
Power outage time	<10ms (continue to work)
Power fuse	250V / 3.15A
Rush current	<15A 1ms (DC24V)
Power consumption	<35W (No expansion included)

PLC Products Dimension

LX1S Series PLC Dimension



LX3V Series PLC Dimension

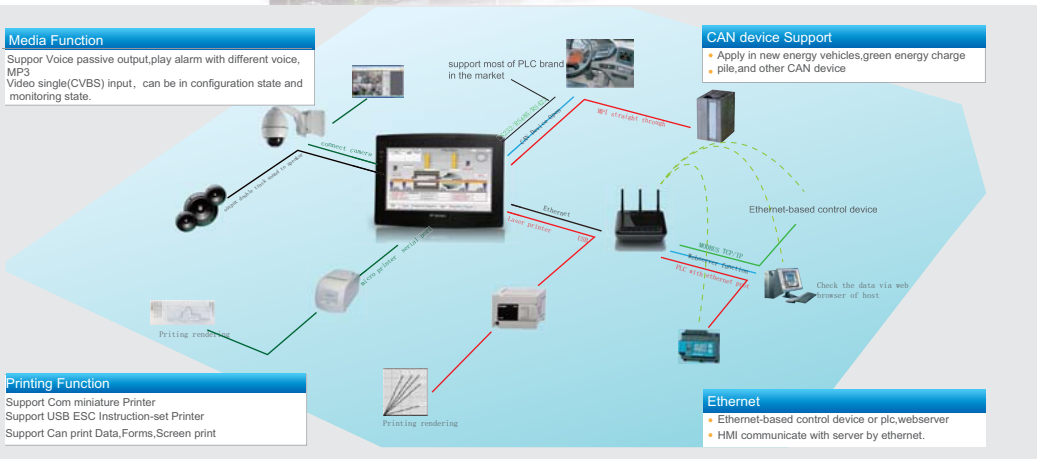


Equipment Support



Media Function

Support Voice passive output, play alarm with different voice, MP3
Video single(CVBS) input, can be in configuration state and monitoring state.



CAN device Support

- Apply in new energy vehicles, green energy charge pile, and other CAN device

Printing Function

Support Com miniature Printer
Support USB ESC Instruction-set Printer
Support Can print Data, Forms, Screen print

Ethernet

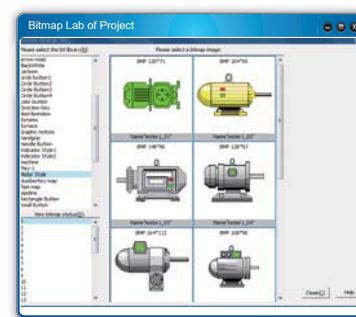
- Ethernet-based control device or plc, webserver
- HMI communicate with server by ethernet.

Program Software

HMI PRODUCTS

Software interface, adopt microsoft latest RIBBON UI technology
Compare with traditional menu-style user interface
Ribbon have below advantages:

- All functions gather orderly, don't need to find cascading menu, toolbar.
- Have more display space.
- Abundant layout can help user to find the important, frequently-used functions.
- Show the views after modify, like change the TXT format.
- More adjust operate HMI



Screen shows APPLE style

- Almost limitless screen storage sapace.
- Apple style menu, display style.
- Abundant bitmaps and vectors, make the screen more easier.
- Support template, have works of life typical application in template library.
- Support user-defined screensaver picture.
- Support JPG, BMP, GIF, PNG, and others format picture.
- Vivid color, maximum reduce the distortion.



	Series	LEVI430T	LEVI777A	LEVI700L	LEVI908T
Display configuration	BM type	4.3 inch	7 inch	7 inch	8 inch
	Display type	TFT true color	TFT true color	TFT true color	TFT true color
	Color	65536 color	65536 color	65536 color	65536 color
	Resolution	480×272	800×480	800×480	800×600
	Displaying size	95W×54H mm	151.0W×85.9H mm	151.0W×85.9H mm	162.0W×121.5H mm
Backlight	Brightness adjust	software adjust	software adjust	software adjust	software adjust
	Touch screen	high precision resistance-type	high precision resistance-type	high precision resistance-type	high precision resistance-type
	Backlight	LED	LED	LED	LED
	Backlight life	50000 hours	50000 hours	50000 hours	50000 hours
	Dormancy	selectable	selectable	selectable	selectable
General configuration	CPU	400MHZ	400MHZ	400MHZ	400MHZ
	video input	/	optional	/	/
	Power voltage	DC24V	DC24V	DC24V	DC24V
	Power voltage range	DC12V~DC28V	DC12V~DC28V	DC12V~DC28V	DC12V~DC28V
	Power consumption	<5W	<5W	<5W	<5W
	Work temperature	-10℃~+60℃	-10℃~+60℃	-10℃~+60℃	-10℃~+60℃
	Protection grade	P65	P65	P65	P65
	Shape size	138.0W×86.0H×37.0 mm	212W×140H×30 mm	212W×140H×30 mm	238.0W×188.0H×47.50 mm
	Installation size	131.0±0.5W×79.0±0.5H mm	192.0±0.5W×138±0.5H mm	192.0±0.5W×138±0.5H mm	234.0±0.5W×179±0.5H mm
	Certificates	CE/FCC	CE/FCC	CE/FCC	CE/FCC
Internal interface	Serial port (COM1)	RS422/RS232/RS485 0 pins)	RS232C/RS422/RS485 0 pins)	RS232C/RS422/RS485 0 pins)	RS232C/RS422/RS485 25 pins)
	Extended port (COM2)	/	RS232C/RS485 0 pins)	/	RS232C/RS485 0 pins)
	Extended port (COM3)	/	optional	/	optional
	USB HOST	swift by software	Yes	Yes	Yes
	USB DEVICE	Yes	Yes	Yes	Yes
	Ethernet	/	optional	/	optional
	CAN DEVICE OPEN	/	optional	/	optional
	EMIF	U disk	SD card	/	SD card
	Video output	/	optional	/	optional
	Screen picture storage	FLASH 128M	FLASH 128M	FLASH 128M	FLASH 128M
storage	DDR	DDR II 64M	DDR II 64M	DDR II 64M	DDR II 64M



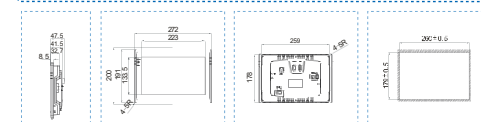
	series	LEVI102A	LEVI810S(A8)	LEVI910T
Display configuration	BM type	10.2 inch	10.2 inch	10.4 inch
	Display type	TFT true color	TFT true color	TFT true color
	Color	65536 color	65536 color	65536 color
	Resolution	800×480	800×600	800×600
	Displaying size	219.6W×131.76H mm	222.72W×125.28mm	211.2W×158.4H mm
Backlight	Brightness adjust	software adjust	software adjust	software adjust
	Touch screen	high precious resistance-type	high precious resistance-type	high precious resistance-type
	Backlight	LED	LED	LED
	Backlight life	50000 hours	50000 hour	50000 hours
	Dormancy	selectable	selectable	selectable
General configuration	CPU	400MHZ	667MHZ (CORTEX A8)	400MHZ
	Video input	optional	/	/
	Power voltage	DC24V	DC24V	DC24V
	Power voltage range	DC12V~DC28V	DC16V~28V	DC12V~DC28.8V
	Power consumption	<5W	<5W	<10W
	Work temperature	-10℃~+60℃	-10℃~+60℃	-10℃~+60℃
	Protection grade	P65	P65	P65
	Shape size	272.0W×200.0H×47.50 mm	272.0W×200.0H×47.50 mm	299.0W×222H×54H mm
	Installation size	260.0±0.5W×179±0.5H mm	260.0±0.5W×179±0.5H mm	288.0±0.5W×212±0.5H mm
	Certificates	CE/FCC	CE/FCC	CE/FCC
External port	serial port (COM1)	RS232C/RS422/RS485 0 pins)	RS232C/RS422/RS485 0 pins)	RS232C/RS422/RS485 25 pins)
	Extended port (COM2)	RS232C/RS485 0 pins)	RS232C/RS485 0 pins)	RS232C/RS485 0 pins)
	Extended port (COM3)	optional	optional	optional
	USB HOST	Yes	Yes	Yes
	USB DEVICE	Yes	Yes	Yes
	Ethernet	optional	Yes	optional
	CAN DEVICE OPEN	optional	Yes	optional
	EMIF	SD card	SD card	SD card
	Video output	optional	optional	optional
	screen picture storage	FLASH 128M	FLASH 512M	FLASH 128M
storage	DDR	DDR II 64M	DDR II 256M	DDR II 64M

Brand	Model/protocol
PLC s	
ABB	COM L16 lve, B lvan)
Allen-Brdy	MicroLogix1000/1500
DELTA	DVP series
Emerson	DEK2, EC20 series
FACON	FB series
FATEK	FBSseries
FESTO	MODBUS TCP.P, FPC.FEC series
FUJI	Nhseries
GE FANUC	Series 90 CCW SNP
HITACHI	EC EH2 series
HAWELL	Whole series
HOLLYSYS	Whole series
DEC	FA-2JM tr-3M k nSmart
NOVANCE	Whole series
KEYENCE	KV series
JETTER	DELTA protocol
KOYO	Direct protocol/k protocol
LG	K200S.K300S.MASTER-K10S
OMRON	CSCP protocol,FNS protocol
Panasonic	Pp series
MITSUBISHI	A series FX1N FX2N Q series /FX3U C
MODCON	984 RTU SLAVE MASTER
SCHNEIDER	NEZA NANO RTU DO
SHARP	Sharp JW series
SIEMENS	S7-200S7-300PP DP
TARN	TP01.02.03 series
TOSHIBA	M20M40.T1T2 series
VEOR	MVBseries
XINJE	Whole series
YOKOGAWA	FA-M3 series
WECON	LX series

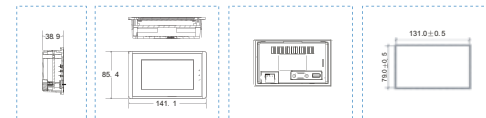
Brand	Model/protocol
Inverter	
DANFOSS	VLT series
DELTA	VFD-B series
HOLP	Whole
NVT	Whole
MITSUBISHI	Freqrol-A500 series
TARN	Whole series
SIEMENS	USS protocol
Temperature controller/data acquisition	
ERO	ERO TFS.AHS.AFS
YUDAN	ABUS protocol
WIDEPLUS	WP protocol
Changhui	SW protocol
Hongge	whole protocol
ADVANTEC	ADAMS protocol
KPCON	Whole series
Baite	Whole series
Donghui	Whole series
Hongrun	Whole series
Servo	
Yaskawa servo	
Open communication protocol	
WECON communication protocol	
MODBUS RTU	MASTER.SLAVE
MODBUS ASCII	MASTER.SLAVE
MODBUS TCP.P	MASTER.SLAVE
BACNET	
Other	
CAN BUS	J1939user-defined CAN protocol
PROFIBUS	MP1
Customize the protocol you need	



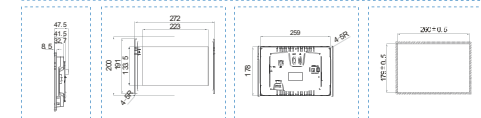
LEVI102A installing size



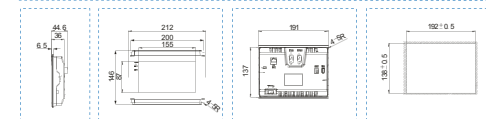
LEV1430T installing size



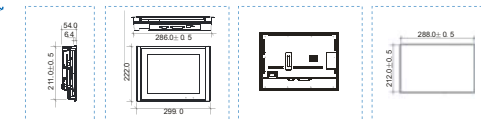
LEV18108 (A8) installing size



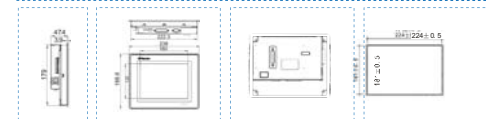
LEV1777A installing size



LEV1910T installing size



LEV1908 installing size



LEV1700L installing size

